SEQUENCE LISTING

<110> OSAKA UNIVERSITY
THE RESEARCH FOUNDATION FOR MICROBIAL DISEASES OF OSAKA UNIVERSITY
MEDICAL AND BIOLOGICAL LABORATORIES CO., LTD
Mahidol University
Department of Medical Sciences (DMSc)

<120> DENGUE-VIRUS SEROTYPE NEUTRALIZING ANTIBODIES

<130> GP11-1015PCT

<150> US61/532,605
<151> 2011-09-09

<150> US61/532,671
<151> 2011-09-09

<160> 258

<170> PatentIn version 3.1

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rne dengue virus (DENV) antibody

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rne dengue virus (DENV) antibody

<400> 88

Asn Tyr Ala Met His
1 5

<210> 89

<211> 17
<212> PRT
<213> Artificial

<220>
<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 89

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

Gly

<210> 90
<211> 16
<212> PRT
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<220>
<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 90

Glu Leu Val Ser Ser Glu Trp Asp Ser Asp Ala Glu Tyr Phe Gln Tyr
1 5 10 15

<210> 91
<211> 7
<212> PRT

<213> Artificial

<220>
<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 91

Thr Gly Asp Met Cys Leu Ser
1 5

<210> 92
<211> 16
<212> PRT
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<220>
<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 92

Leu Ile His Arg Asp Asp Asp Thr Tyr Tyr Ser Thr Ser Leu Lys Thr
1 5 10 15

<210> 93
<211> 15
<212> PRT
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<220>
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rne dengue virus (DENV) antibody

<400> 93

Ser Leu Asp Tyr Gly Asp Tyr Val Val Gly Tyr Ala Phe Asp Val
1 5 10 15

<210> 94
<211> 5
<212> PRT
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rne dengue virus (DENV) antibody

<400> 94

Thr Glu Thr Ile Ser
1 5

<210> 95
<211> 17
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<220>
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rne dengue virus (DENV) antibody

<400> 95

Glu Ile Ile Pro Val Phe Arg Thr Ala Asn Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 96
<211> 14
<212> PRT
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<220>
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rne dengue virus (DENV) antibody

<400> 96

Lys Asn Cys Thr Val Asn Ser Cys Tyr Ala Trp Phe Asp Pro
1 5 10

<210> 97
<211> 5
<212> PRT
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rne dengue virus (DENV) antibody

<400> 97

Ser Tyr Ser Met Asn
1 5

<210> 98
<211> 17

<212> PRT
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<220>
<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 98

Ser Ile Ser Thr Thr Ser Ser Phe Ile Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 99
<211> 15
<212> PRT
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<220>
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rne dengue virus (DENV) antibody

<400> 99

Val Tyr Cys Ser Thr Thr Ser Cys Ser Pro Asn Tyr Phe Asp Ser
1 5 10 15

<210> 100
<211> 11
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rne dengue virus (DENV) antibody

<400> 100

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

<210> 101
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<220>
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rne dengue virus (DENV) antibody

<400> 101

Gly Ala Ser Arg Leu Glu Arg
1 5

<210> 102
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<220>
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rne dengue virus (DENV) antibody

<400> 102

Gln Gln Tyr Ser Ser Ile Pro Tyr Thr
1 5

<210> 103
<211> 14
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rne dengue virus (DENV) antibody

<400> 103

Ala Ser Ser Thr Gly Ala Val Thr Ser Gly His Tyr Ala Asn
1 5 10

<210> 104
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rne dengue virus (DENV) antibody

<400> 104

Arg Thr Asp Lys Lys His Ser
1 5

<210> 105

<211> 9
<212> PRT
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<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 105

Leu Leu Tyr Arg Asp Gly Gly Val Val
1 5

<210> 106
<211> 13
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<220>
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rne dengue virus (DENV) antibody

<400> 106

Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Tyr
1 5 10

<210> 107
<211> 7
<212> PRT
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rne dengue virus (DENV) antibody

<400> 107

Ser Asn Asn Gln Arg Pro Ser
1 5

<210> 108
<211> 11
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rne dengue virus (DENV) antibody

<400> 108

Ala Thr Trp Asp Asp Ser Leu Ser Arg Pro Val
1 5 10

<210> 109
<211> 11
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<220>
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rne dengue virus (DENV) antibody

<400> 109

Gln Ala Ser Gln Asp Ile Lys Asn His Leu Asn
1 5 10

<210> 110
<211> 7
<212> PRT
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rne dengue virus (DENV) antibody

<400> 110

Asp Ala Ser Asn Leu Gly Thr
1 5

<210> 111
<211> 9
<212> PRT
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rne dengue virus (DENV) antibody

<400> 111

His Gln Tyr Glu Asn Leu Pro Ile Thr
1 5

<210> 112
<211> 14
<212> PRT
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<220>
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rne dengue virus (DENV) antibody

<400> 112

Thr Gly Thr Ser Gly Asp Val Gly Gly Asp Ser Leu Val Ser
1 5 10

<210> 113
<211> 7
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<220>
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rne dengue virus (DENV) antibody

<400> 113

Glu Asp His Lys Arg Pro Ser
1 5

<210> 114
<211> 11
<212> PRT
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<220>
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rne dengue virus (DENV) antibody

<400> 114

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

<210> 115
<211> 13
<212> PRT
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<220>
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rne dengue virus (DENV) antibody

<400> 115

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

<210> 116
<211> 7
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rne dengue virus (DENV) antibody

<400> 116

Ser Asp Asn Gln Arg Pro Ser
1 5

<210> 117

<211> 11
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rne dengue virus (DENV) antibody

<400> 117

Ala Thr Trp Asp Asp Ser Leu Ser Gly Pro Val
1 5 10

<210> 118
<211> 13
<212> PRT
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rne dengue virus (DENV) antibody

<400> 118

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

<210> 119
<211> 7
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<220>
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rne dengue virus (DENV) antibody

<400> 119

Ser Thr Asn Gln Arg Pro Ser
1 5

<210> 120
<211> 11
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rne dengue virus (DENV) antibody

<400> 120

Ala Ala Trp Asp Asp Ser Leu Ser Ala Pro Leu
1 5 10

<210> 121
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<220>
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rne dengue virus (DENV) antibody

<400> 121

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

<210> 122
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rne dengue virus (DENV) antibody

<400> 122

Ala Thr Ser Ser Leu Gln Ser
1 5

<210> 123
<211> 9
<212> PRT
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<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 123

Gln Gln Ala Asn Ser Phe Pro Trp Thr
1 5

<210> 124
<211> 17
<212> PRT
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<220>
<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 124

Arg Ser Ser Gln Thr Ile Leu Tyr Ser Ser Asn Asn Asn Asn Tyr Leu
1 5 10 15

Ala

<210> 125
<211> 7
<212> PRT
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<220>
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rne dengue virus (DENV) antibody

<400> 125

Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 126
<211> 9
<212> PRT
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<220>

<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 126

Gln Gln Tyr Tyr Ser Ser Pro Pro Thr
1 5

<210> 127
<211> 14
<212> PRT
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<220>
<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 127

Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Tyr Tyr Pro Asn
1 5 10

<210> 128
<211> 7
<212> PRT
<213> Artificial

<220>
<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 128

Ser Thr Ser Ser Lys His Ser

1 5

<210> 129
<211> 9
<212> PRT
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<220>
<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 129

Leu Leu Tyr Tyr Arg Gly Gly Val Val
1 5

<210> 130
<211> 14
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rne dengue virus (DENV) antibody

<400> 130

Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Ala Asn
1 5 10

<210> 131
<211> 7
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rne dengue virus (DENV) antibody

<400> 131

Arg Thr Asp Lys Lys His Ser
1 5

<210> 132
<211> 9
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rne dengue virus (DENV) antibody

<400> 132

Leu Leu Tyr Arg Asp Gly Gly Val Val
1 5

<210> 133
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rne dengue virus (DENV) antibody

<400> 133

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

<210> 134
<211> 7
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rne dengue virus (DENV) antibody

<400> 134

Ala Ala Ser Arg Leu His Ser
1 5

<210> 135
<211> 9
<212> PRT
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rne dengue virus (DENV) antibody

<400> 135

Gln Gln Tyr Tyr Ser Ile Pro Tyr Thr
1 5

<210> 136
<211> 14
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rne dengue virus (DENV) antibody

<400> 136

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

<210> 137
<211> 7
<212> PRT
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<220>
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rne dengue virus (DENV) antibody

<400> 137

Ser Asn Thr Asn Arg Pro Ser
1 5

<210> 138
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<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 138

Gln Ser Tyr Asp Ser Ser Leu Phe Ala Cys Val
1 5 10

<210> 139
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rne dengue virus (DENV) antibody

<400> 139

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

<210> 140
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rne dengue virus (DENV) antibody

<400> 140

Asp Ala Ser Asn Arg Ala Thr

1 5

<210> 141
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rne dengue virus (DENV) antibody

<400> 141

Gln Gln Arg Asp Asn Trp Pro Tyr Thr
1 5

<210> 142
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rne dengue virus (DENV) antibody

<400> 142

Thr Gly Arg Ser Ser Asn Ile Gly Ala Gly His Asp Val His
1 5 10

<210> 143
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<220>
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rne dengue virus (DENV) antibody

<400> 143

Gly Asn Asn Ile Arg Pro Ser
1 5

<210> 144
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rne dengue virus (DENV) antibody

<400> 144

Gln Ser Tyr Asp Gly Ser Leu Ser Gly Leu Val
1 5 10

<210> 145
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rne dengue virus (DENV) antibody

<400> 145

Ala Ser Ser Thr Gly Ala Val Thr Ser Asp Tyr Phe Pro Asn
1 5 10

<210> 146
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rne dengue virus (DENV) antibody

<400> 146

His Thr Gly Lys Lys His Ser
1 5

<210> 147
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rne dengue virus (DENV) antibody

<400> 147

Leu Leu Tyr His Val Asp Ala His Leu Val
1 5 10

<210> 148
<211> 14
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rne dengue virus (DENV) antibody

<400> 148

Thr Gly Ser Ser Arg Asp Phe Gly Asp Tyr Asp His Val Ser
1 5 10

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rne dengue virus (DENV) antibody

<400> 149

Asp Val Thr Lys Arg Pro Ser
1 5

<210> 150
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<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 150

Cys Ser Tyr Ala Gly Ser Tyr Ile Trp Val
1 5 10

<210> 151
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rne dengue virus (DENV) antibody

<400> 151

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

<210> 152
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rne dengue virus (DENV) antibody

<400> 152

Ala Ala Ser Ser Leu Gln Ser

1 5

<210> 153
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rne dengue virus (DENV) antibody

<400> 153

Leu Gln Thr Tyr Thr Ala Pro Leu Thr
1 5

<210> 154
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rne dengue virus (DENV) antibody

<400> 154

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

<210> 155
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<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 155

Asp Val Ser Asn Arg Pro Ser
1 5

<210> 156
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rne dengue virus (DENV) antibody

<400> 156

Ser Ser Tyr Thr Thr Ser Ser Thr Leu Val
1 5 10

<210> 157
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rne dengue virus (DENV) antibody

<400> 157

Thr Gly Ala Asp Ser Asp Val Gly Val Tyr Ser Leu Val Ser
1 5 10

<210> 158
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<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 158

Glu Gly Thr Lys Arg Pro Ser
1 5

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rne dengue virus (DENV) antibody

<400> 159

Cys Ser Tyr Ala Gly Val Thr Thr Pro Gly Ile Val
1 5 10

<210> 160
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rne dengue virus (DENV) antibody

<400> 160

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1 5 10

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rne dengue virus (DENV) antibody

<400> 161

Glu Gly Thr Lys Arg Pro Ser
1 5

<210> 162
<211> 12
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rne dengue virus (DENV) antibody

<400> 162

Cys Ser Tyr Ala Gly Val Thr Thr Pro Gly Ile Val
1 5 10

<210> 163
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rne dengue virus (DENV) antibody

<400> 163

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

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rne dengue virus (DENV) antibody

<400> 164

Asn Asn Asn Gln Arg Pro Ser

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<210> 165
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rne dengue virus (DENV) antibody

<400> 165

Thr Ala Trp Asp Asp Tyr Leu Ser Gly Pro Leu
1 5 10

<210> 166
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rne dengue virus (DENV) antibody

<400> 166

Thr Gly Ala Asp Ser Asp Val Gly Val Tyr Ser Leu Val Ser
1 5 10

<210> 167
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rne dengue virus (DENV) antibody

<400> 167

Glu Gly Thr Lys Arg Pro Ser
1 5

<210> 168
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rne dengue virus (DENV) antibody

<400> 168

Cys Ser Tyr Ala Gly Val Thr Thr Pro Gly Ile Val
1 5 10

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rne dengue virus (DENV) antibody

<400> 169

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

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rne dengue virus (DENV) antibody

<400> 170

Glu Val Ile Lys Arg Pro Ser
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rne dengue virus (DENV) antibody

<400> 171

Ser Ser Tyr Gly Gly Asn Asn Asn Val Val
1 5 10

<210> 172
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rne dengue virus (DENV) antibody

<400> 172

Ser Gly Ser Ile Ser Asn Ile Gly Asn Asn Tyr Val Ser
1 5 10

<210> 173
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rne dengue virus (DENV) antibody

<400> 173

Asp Asn Asn Lys Arg Pro Ser
1 5

<210> 174
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<223> Amino acid sequence of CDR in variable region of anti Mosquito-bo
rne dengue virus (DENV) antibody

<400> 174

Gly Thr Trp Asp Gly Ser Leu Ser Ala Leu
1 5 10

<210> 175
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rne dengue virus (DENV) antibody

<400> 175

Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Ser Val Ser
1 5 10

<210> 176
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rne dengue virus (DENV) antibody

<400> 176

Glu Val Asn Lys Arg Pro Ser

1 5

<210> 177
<211> 9
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rne dengue virus (DENV) antibody

<400> 177

Asn Ser Tyr Ala Gly Ser Lys Ile Val
1 5

<210> 178
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rne dengue virus (DENV) antibody

<400> 178

Thr Gly Thr Gly Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
1 5 10

<210> 179
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rne dengue virus (DENV) antibody

<400> 179

Asp Val Ser Lys Arg Pro Ser
1 5

<210> 180
<211> 10
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rne dengue virus (DENV) antibody

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rne dengue virus (DENV) antibody

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rne dengue virus (DENV) antibody

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