

SEQUENCE LISTING

<110> Amgen Inc

<120> TREM2 ANTIGEN BINDING PROTEINS AND USES THEREOF

<130> A-2129-WO-PCT

<140> PCT/US XX/XXXXXX

<141> 2018-04-18

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<150> 62/580,400

<151> 2017-11-01

<160> 367

<170> PatentIn version 3.5

<210> 1

<211> 230

<212> PRT

<213> Homo sapiens

<400> 1

Met Glu Pro Leu Arg Leu Leu Ile Leu Leu Phe Val Thr Glu Leu Ser
1 5 10 15

Gly Ala His Asn Thr Thr Val Phe Gln Gly Val Ala Gly Gln Ser Leu
20 25 30

Gln Val Ser Cys Pro Tyr Asp Ser Met Lys His Trp Gly Arg Arg Lys
35 40 45

Ala Trp Cys Arg Gln Leu Gly Glu Lys Gly Pro Cys Gln Arg Val Val
50 55 60

Ser Thr His Asn Leu Trp Leu Leu Ser Phe Leu Arg Arg Trp Asn Gly
65 70 75 80

Ser Thr Ala Ile Thr Asp Asp Thr Leu Gly Gly Thr Leu Thr Ile Thr
 85 90 95

Leu Arg Asn Leu Gln Pro His Asp Ala Gly Leu Tyr Gln Cys Gln Ser
 100 105 110

Leu His Gly Ser Glu Ala Asp Thr Leu Arg Lys Val Leu Val Glu Val
 115 120 125

Leu Ala Asp Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Phe Pro
 130 135 140

Gly Glu Ser Glu Ser Phe Glu Asp Ala His Val Glu His Ser Ile Ser
 145 150 155 160

Arg Ser Leu Leu Glu Gly Glu Ile Pro Phe Pro Pro Thr Ser Ile Leu
 165 170 175

Leu Leu Leu Ala Cys Ile Phe Leu Ile Lys Ile Leu Ala Ala Ser Ala
 180 185 190

Leu Trp Ala Ala Ala Trp His Gly Gln Lys Pro Gly Thr His Pro Pro
 195 200 205

Ser Glu Leu Asp Cys Gly His Asp Pro Gly Tyr Gln Leu Gln Thr Leu
 210 215 220

Pro Gly Leu Arg Asp Thr
 225 230

<210> 2
 <211> 174
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 <213> Homo sapiens

<400> 2

Met Glu Pro Leu Arg Leu Leu Ile Leu Leu Phe Val Thr Glu Leu Ser
 1 5 10 15

Gly Ala His Asn Thr Thr Val Phe Gln Gly Val Ala Gly Gln Ser Leu
 20 25 30

Gln Val Ser Cys Pro Tyr Asp Ser Met Lys His Trp Gly Arg Arg Lys
 35 40 45

Ala Trp Cys Arg Gln Leu Gly Glu Lys Gly Pro Cys Gln Arg Val Val
 50 55 60

Ser Thr His Asn Leu Trp Leu Leu Ser Phe Leu Arg Arg Trp Asn Gly
 65 70 75 80

Ser Thr Ala Ile Thr Asp Asp Thr Leu Gly Gly Thr Leu Thr Ile Thr
 85 90 95

Leu Arg Asn Leu Gln Pro His Asp Ala Gly Leu Tyr Gln Cys Gln Ser
 100 105 110

Leu His Gly Ser Glu Ala Asp Thr Leu Arg Lys Val Leu Val Glu Val
 115 120 125

Leu Ala Asp Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Phe Pro
 130 135 140

Gly Glu Ser Glu Ser Phe Glu Asp Ala His Val Glu His Ser Ile Ser
 145 150 155 160

Arg Ser Leu Leu Glu Gly Glu Ile Pro Phe Pro Pro Thr Ser
 165 170

<210> 3
 <211> 113
 <212> PRT
 <213> Homo sapiens

4

<400> 3

Met Gly Gly Leu Glu Pro Cys Ser Arg Leu Leu Leu Leu Pro Leu Leu
1 5 10 15

Leu Ala Val Ser Gly Leu Arg Pro Val Gln Ala Gln Ala Gln Ser Asp
20 25 30

Cys Ser Cys Ser Thr Val Ser Pro Gly Val Leu Ala Gly Ile Val Met
35 40 45

Gly Asp Leu Val Leu Thr Val Leu Ile Ala Leu Ala Val Tyr Phe Leu
50 55 60

Gly Arg Leu Val Pro Arg Gly Arg Gly Ala Ala Glu Ala Ala Thr Arg
65 70 75 80

Lys Gln Arg Ile Thr Glu Thr Glu Ser Pro Tyr Gln Glu Leu Gln Gly
85 90 95

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

Lys

<210> 4

<211> 234

<212> PRT

<213> Homo sapiens

<400> 4

Met Arg Lys Thr Arg Leu Trp Gly Leu Leu Trp Met Leu Phe Val Ser
1 5 10 15

Glu Leu Arg Ala Ala Thr Lys Leu Thr Glu Glu Lys Tyr Glu Leu Lys
20 25 30

Glu Gly Gln Thr Leu Asp Val Lys Cys Asp Tyr Thr Leu Glu Lys Phe
 35 40 45

Ala Ser Ser Gln Lys Ala Trp Gln Ile Ile Arg Asp Gly Glu Met Pro
 50 55 60

Lys Thr Leu Ala Cys Thr Glu Arg Pro Ser Lys Asn Ser His Pro Val
 65 70 75 80

Gln Val Gly Arg Ile Ile Leu Glu Asp Tyr His Asp His Gly Leu Leu
 85 90 95

Arg Val Arg Met Val Asn Leu Gln Val Glu Asp Ser Gly Leu Tyr Gln
 100 105 110

Cys Val Ile Tyr Gln Pro Pro Lys Glu Pro His Met Leu Phe Asp Arg
 115 120 125

Ile Arg Leu Val Val Thr Lys Gly Phe Ser Gly Thr Pro Gly Ser Asn
 130 135 140

Glu Asn Ser Thr Gln Asn Val Tyr Lys Ile Pro Pro Thr Thr Thr Lys
 145 150 155 160

Ala Leu Cys Pro Leu Tyr Thr Ser Pro Arg Thr Val Thr Gln Ala Pro
 165 170 175

Pro Lys Ser Thr Ala Asp Val Ser Thr Pro Asp Ser Glu Ile Asn Leu
 180 185 190

Thr Asn Val Thr Asp Ile Ile Arg Val Pro Val Phe Asn Ile Val Ile
 195 200 205

Leu Leu Ala Gly Gly Phe Leu Ser Lys Ser Leu Val Phe Ser Val Leu
 210 215 220

Phe Ala Val Thr Leu Arg Ser Phe Val Pro

225

230

<210> 5
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 5

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

<210> 6
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL1 Antibody ID 26C10

<400> 6

Ser Gly Asp Lys Leu Gly Asp Lys Tyr Val Cys
 1 5 10

<210> 7
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL1 Antibody ID 24C12

<400> 7

Lys Ser Ser Arg Ser Val Leu Tyr Ser Ser Asn Asn Lys Asn Tyr Leu
 1 5 10 15

Ala

<210> 8
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL1 Antibody ID 24G6

<400> 8

Lys	Ser	Ser	Gln	Ser	Val	Leu	Tyr	Ser	Ser	Asn	Asn	Lys	His	Phe	Leu
1				5				10						15	

Ala

<210> 9
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL1 Antibody ID 24A10

<400> 9

Lys	Ser	Ser	His	Asn	Val	Leu	Tyr	Ser	Ser	Asn	Asn	Lys	Asn	Tyr	Leu
1				5				10						15	

Ala

<210> 10
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL1 Antibody ID 10E3

<400> 10

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

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

<220>
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<400> 11

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

<210> 12
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL1 Antibody ID 32E3

<400> 12

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

<210> 13
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL1 Antibody ID 24F4

<400> 13

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

<210> 14
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>

<223> CDRL1 Antibody ID 16B8

<400> 14

Arg	Ala	Ser	Gln	Asp	Ile	Asn	Ser	Trp	Leu	Ala
1				5					10	

<210> 15

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL1 Antibody ID 4C5

<400> 15

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

<210> 16

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL1 Antibody ID 6E7

<400> 16

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

<210> 17

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL1 Antibody ID 5E3

<400> 17

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

<210> 18
 <211> 11
 <212> PRT
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<220>
 <223> CDRL1 Antibody ID 4G10

<400> 18

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

<210> 19
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL2 Antibody ID 12G10

<400> 19

Tyr Lys Ser Asp Ser Asp Lys Gln Gln Gly Ser
 1 5 10

<210> 20
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 20

Gln Asp Ser Lys Arg Pro Ser
 1 5

<210> 21
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>

<223> CDRL2 Antibody ID 26C10

<400> 21

Gln Asp Thr Lys Arg Pro Ser
1 5

<210> 22

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL2 Antibody ID 24C12

<400> 22

Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 23

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL2 Antibody ID 10E3

<400> 23

Gly Ala Ser Thr Arg Ala Thr
1 5

<210> 24

<211> 7

<212> PRT

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<220>

<223> CDRL2 Antibody ID 32E3

<400> 24

Ser Ala Ser Ser Arg Ala Thr
1 5

<210> 25
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL2 Antibody ID 24F4

<400> 25

Gly Ala Ser Ser Arg Ala Thr
 1 5

<210> 26
 <211> 7
 <212> PRT
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<220>
 <223> CDRL2 Antibody ID 16B8

<400> 26

Ala Ala Ser Ser Leu Gln Thr
 1 5

<210> 27
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL2 Antibody ID 4C5

<400> 27

Ala Ala Ser Ser Leu Gln Val
 1 5

<210> 28
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>

<223> CDRL2 Antibody ID 6E7

<400> 28

Ala Ala Ser Ser Leu Gln Asn
1 5

<210> 29

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL2 Antibody ID 5E3

<400> 29

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 30

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL2 Antibody ID 4G10

<400> 30

Ala Ala Ser Ser Leu Pro Ser
1 5

<210> 31

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL3 Antibody ID 12G10

<400> 31

Met Ile Trp Tyr Ser Ser Ala Val Val
1 5

<210> 32
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL3 Antibody ID 26A10

<400> 32

Gln Ala Trp Asp Ser Asn Thr Val Val
 1 5

<210> 33
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL3 Antibody ID 26C10

<400> 33

Gln Ala Trp Asp Ser Ser Thr Val Val
 1 5

<210> 34
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL3 Antibody ID 24C12

<400> 34

Gln Gln Tyr Tyr Ile Thr Pro Ile Thr
 1 5

<210> 35
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>

<223> CDRL3 Antibody ID 24G6

<400> 35

Gln Gln Tyr Tyr Ser Thr Pro Leu Thr
1 5

<210> 36

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL3 Antibody 24A10

<400> 36

His Gln Tyr Tyr Ser Thr Pro Cys Ser
1 5

<210> 37

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL3 Antibody ID 10E3

<400> 37

Leu Gln Asp Asn Asn Trp Pro Pro Thr
1 5

<210> 38

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL3 Antibody ID 25F12

<400> 38

Gln Gln Tyr Asn Asn Trp Pro Arg Thr
1 5

<210> 39
<211> 9
<212> PRT
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<220>
<223> CDRL3 Antibody ID 32E3

<400> 39

Gln Gln Phe Asp Ser Ser Pro Ile Thr
1 5

<210> 40
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRL3 Antibody ID 24F4

<400> 40

Gln Gln Tyr Asp Thr Ser Pro Phe Thr
1 5

<210> 41
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRL3 Antibody ID 16B8

<400> 41

Gln Gln Ser Asn Ser Phe Pro Ile Thr
1 5

<210> 42
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> CDRL3 Antibody ID 4C5

<400> 42

Gln Gln Ala Asp Ser Phe Pro Arg Asn
1 5

<210> 43

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL3 Antibody ID 6E7

<400> 43

Gln Gln Ala Asp Ser Phe Pro Arg Thr
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<210> 44

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL3 Antibody ID 5E3

<400> 44

Gln Gln Tyr Ser Thr Tyr Pro Phe Thr
1 5

<210> 45

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRL3 Antibody ID 4G10

<400> 45

Leu Gln His Asn Ser Tyr Pro Trp Thr
1 5

<210> 46
 <211> 115
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VL Amino Acid Sequence Antibody ID 12G10

<400> 46

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

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

Tyr Arg Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Gln Tyr
 35 40 45

Leu Leu Arg Tyr Lys Ser Asp Ser Asp Lys Gln Gln Gly Ser Gly Val
 50 55 60

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

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
 85 90 95

Met Ile Trp Tyr Ser Ser Ala Val Val Phe Gly Gly Gly Thr Lys Leu
 100 105 110

Thr Val Leu
 115

<210> 47
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID 26A10

<400> 47

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

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

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

Gln Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Asn Thr Val Val
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 48

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID 26C10

<400> 48

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

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

20

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

Gln Asp Thr Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Thr Val Val
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 49

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID 26F2

<400> 49

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

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

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

Gln Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Thr Val Val
 85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 50
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VL Amino Acid Sequence Antibody ID 33B12

<400> 50

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

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

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

Gln Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Thr Val Val
 85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 51

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

<220>
 <223> VL Amino Acid Sequence Antibody ID 24C12

<400> 51

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

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

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

Pro Pro Lys Val Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

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

Tyr Tyr Ile Thr Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile
 100 105 110

Lys

<210> 52
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VL Amino Acid Sequence Antibody ID 24G6

<400> 52

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

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

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

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

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

Tyr Tyr Ser Thr Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 53

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID 24A10

<400> 53

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

Glu Arg Ala Thr Ile Thr Cys Lys Ser Ser His Asn Val Leu Tyr Ser

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

Lys

<210> 54
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VL Amino Acid Sequence Antibody ID 10E3

<400> 54

Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn
 20 25 30
 Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45

Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Val
50 55 60 25

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 55
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> VL Amino Acid Sequence Antibody ID 13E7 14C12

<400> 55

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

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

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

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Leu Gln Asp Asn Asn Trp Pro Pro
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
 100 105

<210> 56
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VL Amino Acid Sequence Antibody ID 25F12

<400> 56

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

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

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

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
 65 70 75 80

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

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

<210> 57
 <211> 108
 <212> PRT
 <213> Artificial Sequence

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27

<223> VL Amino Acid Sequence Antibody ID 25F12

<400> 57

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

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

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

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

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

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

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

<210> 58

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID 24F4

<400> 58

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20 25 30

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

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

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

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

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
 100 105

<210> 59

<211> 107

<212> PRT

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<400> 59

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

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

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

Tyr Ala Ala Ser Ser Leu Gln 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 Ser Cys Gln Gln Ser Asn Ser Phe Pro Ile
 85 90 95

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

<210> 60
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 <223> VL Amino Acid Sequence Antibody ID 4C5

<400> 60

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

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

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

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

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

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

Asn Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 61

30

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

<220>
<223> VL Amino Acid Sequence Antibody ID 6E7

<400> 61

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

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

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

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

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

<210> 62
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> VL Amino Acid Sequence Antibody ID 5E3

<400> 62

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

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

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

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

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 63

<211> 107

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Exemplary Anti-Human TREM2 Antibody Light Chain Variable Region
Amino Acid Sequences - VL Amino Acid Sequence

<400> 63

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

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

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

Tyr Ala Ala Ser Ser Leu Pro Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60 32

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Trp
85 90 95

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

<210> 64
<211> 113
<212> PRT
<213> Homo sapiens

<400> 64

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

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
85 90 95

Tyr Tyr Ser Thr Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile
100 105 110

Lys

<210> 65
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 65

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

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

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

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
 85 90 95

Tyr Tyr Ser Thr Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile
 100 105 110

Lys

<210> 66
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 66

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

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

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

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
 85 90 95

Tyr Tyr Ser Thr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 67

<211> 107

<212> PRT

<213> Homo sapiens

<400> 67

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

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

35

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

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 68
<211> 107
<212> PRT
<213> Homo sapiens

<400> 68

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

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

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

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro Trp

85 90 36 95

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

<210> 69
<211> 108
<212> PRT
<213> Homo sapiens

<400> 69

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20 25 30

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

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

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

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
85 90 95

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

<210> 70
<211> 108
<212> PRT
<213> Homo sapiens

<400> 70

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15 37

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30

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

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

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

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
 100 105

<210> 71
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 71

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

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

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

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

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

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

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

<210> 72
 <211> 107
 <212> PRT
 <213> Homo sapiens
 <400> 72

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

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

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

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

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

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

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

<210> 73
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 73

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

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

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

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

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
 100 105

<210> 74
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 74

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

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

40

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

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

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Trp
85 90 95

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

<210> 75
<211> 116
<212> PRT
<213> Homo sapiens

<400> 75

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

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

Tyr Arg Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Gln Tyr
35 40 45

Leu Leu Arg Tyr Lys Ser Asp Ser Asp Lys Gln Gln Gly Ser Gly Val
50 55 60

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

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys

85 41 90 95

Met Ile Trp His Ser Ser Ala Ser Val Val Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu
115

<210> 76
<211> 107
<212> PRT
<213> Homo sapiens

<400> 76

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

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

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

Gln Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Thr Ala Val
85 90 95

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 77
<211> 5
<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary Anti-Human TREM2 Antibody Heavy Chain Variable Region
Amino Acid Sequences - CDRH1

<400> 77

Ser Tyr Ala Met Ser
1 5

<210> 78

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH1 Antibody ID 26A10

<400> 78

Ser Phe Gly Met Ser
1 5

<210> 79

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH1 Antibody ID 24A10

<400> 79

Asn Tyr Ala Met Ser
1 5

<210> 80

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH1 Antibody ID 10E3

<400> 80

Asn Tyr Trp Ile Gly
1 5

<210> 81
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRH1 Antibody ID 13E7 14C12

<400> 81

Ser Tyr Trp Ile Gly
1 5

<210> 82
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRH1 Antibody ID 25F12

<400> 82

Ser Tyr Tyr Trp Ser
1 5

<210> 83
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRH1 Antibody 16B8

<400> 83

Asn Tyr Gly Ile Ser
1 5

<210> 84
<211> 5

<212> PRT
<213> Artificial Sequence

<220>
<223> CDRH1 Antibody ID 4C5

<400> 84

Asn Tyr Trp Ile Ala
1 5

<210> 85
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRH1 Antibody ID 6E7

<400> 85

Ser Tyr Trp Ile Ala
1 5

<210> 86
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRH1 Antibody ID 5E3

<400> 86

Gly Tyr Tyr Ile His
1 5

<210> 87
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRH2 Antibody ID 12G10 24C12

<400> 87

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

Gly

<210> 88
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary Anti-Human TREM2 Antibody Heavy Chain Variable Region
 Amino Acid Sequences - CDRH2

<400> 88

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

Gly

<210> 89
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH2 Antibody 26A10

<400> 89

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

Gly

<210> 90
 <211> 17
 <212> PRT

<213> Artificial Sequence

<220>

<223> CDRH2 Antibody ID24G6

<400> 90

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

Gly

<210> 91

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH2 Antibody ID 10E3

<400> 91

Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe	Gln
1				5					10					15	

Gly

<210> 92

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH2 Antibody ID 25F12

<400> 92

Glu	Ile	Asn	His	Ser	Gly	Asn	Thr	Asn	Tyr	Asn	Pro	Ser	Leu	Lys	Ser
1				5					10					15	

<210> 93

<211> 17

<212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH2 Antibody ID 16B8

<400> 93

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

Gly

<210> 94
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH2 Antibody 4C5

<400> 94

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

Gly

<210> 95
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody 12G10 24C12

<400> 95

Phe	Tyr	Ile	Ala	Val	Ala	Gly	Ser	His	Phe	Asp	Tyr
1				5				10			

<210> 96

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

<220>
 <223> CDRH3 Antibody ID 26A10

<400> 96

Glu Gly Gly Leu Thr Met Val Arg Gly Val Ser Ser Tyr Gly Leu Asp
 1 5 10 15

Val

<210> 97
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID 26C10

<400> 97

Glu Gly Gly Ile Thr Met Val Arg Gly Val Ser Ser Tyr Gly Met Asp
 1 5 10 15

Val

<210> 98
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID 24G6

<400> 98

Ala Tyr Thr Pro Met Ala Phe Phe Asp Tyr
 1 5 10

<210> 99
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID 24A10

<400> 99

Gly Gly Trp Glu Leu Phe Tyr
 1 5

<210> 100
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID 10E3

<400> 100

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

<210> 101
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID 13E7 14C12

<400> 101

Arg Arg Gln Gly Ile Trp Gly Asp Ala Leu Asp Phe
 1 5 10

<210> 102
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID 25F12

<400> 102

Glu Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr His Asp Ala Phe Asp Ile
 1 5 10 15

<210> 103

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH3 Antibody ID 32E3

<400> 103

His Asp Ile Ile Pro Ala Ala Pro Gly Ala Phe Asp Ile
 1 5 10

<210> 104

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH3 Antibody ID 24F4

<400> 104

Gln Ala Ile Ala Val Thr Gly Leu Gly Gly Phe Asp Pro
 1 5 10

<210> 105

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH3 Antibody ID 16B8

<400> 105

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

<210> 106
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID 4C5

<400> 106

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

<210> 107
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID 6E7

<400> 107

Gln Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
 1 5 10

<210> 108
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID 5E3

<400> 108

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

<210> 109
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID 4G10

<400> 109

Gln Gly Ile Glu Val Thr Gly Thr Gly Gly Leu Asp Val
1 5 10

<210> 110

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID 12G10 24C12

<400> 110

Glu Val Gln Leu Leu 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 Ser Ser Tyr
20 25 30

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

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

<220>
 <223> VH Amino Acid Sequence Antibody ID 26A10

<400> 111

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

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

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

Ser Tyr Ile Ser Ser Ser Ser Phe Thr Ile Tyr Tyr Ala Asp Ser Val
 50 55 60

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

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

Ala Arg Glu Gly Gly Leu Thr Met Val Arg Gly Val Ser Ser Tyr Gly
 100 105 110

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

<210> 112
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VH Amino Acid Sequence Antibody ID 26C10

<400> 112

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

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

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

Ser Tyr Ile Ser Ser Ser Ser Phe Thr Ile Tyr Tyr Ala Asp Ser Val
 50 55 60

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

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

Val Arg Glu Gly Gly Ile Thr Met Val Arg Gly Val Ser Ser Tyr Gly
 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 113

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID 26F2

<400> 113

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe
20 25 55 30

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

Ser Tyr Ile Ser Ser Ser Ser Phe Thr Ile Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Arg Glu Gly Gly Ile Thr Met Val Arg Gly Val Ser Ser Tyr Gly
100 105 110

Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120 125

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

<220>
<223> VH Amino Acid Sequence Antibody ID 33B12

<400> 114

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

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

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

Ser Tyr Ile Ser Lys Ser Ser Phe Thr Ile Tyr Tyr Ala Asp Ser Val
 50 55 60

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

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

Ala Arg Glu Gly Gly Leu Thr Met Val Arg Gly Val Ser Ser Tyr Gly
 100 105 110

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

<210> 115

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID 24G6

<400> 115

Glu Val Gln Leu Leu 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 Ser Ser Tyr
 20 25 30

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr 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 Lys Ala Tyr Thr Pro Met Ala Phe Phe Asp Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser
 115

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

<220>
 <223> VH Amino Acid Sequence Antibody ID 24A10

<400> 116

Glu Val Gln Val Leu 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 Ser Asn Tyr
 20 25 30

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

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

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

58

100

105

110

Thr Val Ser Ser
115

<210> 117

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID 10E3

<400> 117

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

Ser Leu Met Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Asn Tyr
20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
85 90 95

Ala Arg Arg Arg Gln Gly Ile Trp Gly Asp Ala Leu Asp Ile Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 118
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VH Amino Acid Sequence Antibody ID 13E7 14C12

<400> 118

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

Ser Leu Met Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
 85 90 95

Ala Arg Arg Arg Gln Gly Ile Trp Gly Asp Ala Leu Asp Phe Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 119
 <211> 124
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VH Amino Acid Sequence Antibody ID 25F12

<400> 119

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

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

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

Gly Glu Ile Asn His Ser Gly Asn Thr Asn Tyr Asn Pro Ser Leu Lys
 50 55 60

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

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Arg Glu Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr His Asp Ala Phe Asp
 100 105 110

Ile Trp Asp Gln Gly Thr Met Val Thr Val Phe Ser
 115 120

<210> 120

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID 32E3

<400> 120

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30 61

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Thr Leu Lys Ala Ser Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

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

Gly Gln Gly Thr Met Val Thr Val Ser Ser
115 120

<210> 121
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> VH Amino Acid Sequence Antibody ID 24F4

<400> 121

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

62

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

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

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 122

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID 16B8

<400> 122

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

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

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

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu
50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
 115

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

<220>
 <223> VH Amino Acid Sequence Antibody ID 4C5

<400> 123

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly His Ser Phe Thr Asn Tyr
 20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Val Tyr Phe Cys
 85 90 95

Ala Arg Gln Arg Thr Phe Tyr Tyr Asp Ser Ser Gly Tyr Phe Asp Tyr

64

100

105

110

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

<210> 124

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID 6E7

<400> 124

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
85 90 95

Ala Arg Gln Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
100 105 110

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

<210> 125
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VH Amino Acid Sequence Antibody ID 5E3

<400> 125

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

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

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

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

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

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

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

Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 126
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VH Amino Acid Sequence Antibody ID 4G10

<400> 126

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Pro Ser Tyr
 20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60

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

Leu Lys Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
 85 90 95

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

Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 127

<211> 125

<212> PRT

<213> Homo sapiens

<400> 127

Glu Val Gln Leu Leu 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 Ser Ser Tyr
 20 25 30

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr 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 Lys Tyr Tyr Asp Tyr Val Trp Gly Ser Tyr Arg Tyr Thr Tyr Phe
 100 105 110

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

<210> 128

<211> 121

<212> PRT

<213> Homo sapiens

<400> 128

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 Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr

65											68											80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Asp	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys							
			85						90					95								
Ala	Arg	Leu	Thr	Gly	Tyr	Tyr	Tyr	Tyr	Tyr	Gly	Met	Asp	Val	Trp	Gly							
			100					105					110									
Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser														
		115					120															
<210>	129																					
<211>	122																					
<212>	PRT																					
<213>	Homo sapiens																					
<400>	129																					
Glu	Val	Gln	Leu	Leu	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	Ser	Ser	Tyr							
			20					25					30									
Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val							
		35					40					45										
Ser	Ala	Ile	Ser	Gly	Ser	Gly	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val							
	50					55					60											
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	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	Lys	Ala	Tyr	Cys	Gly	Gly	Asp	Cys	Tyr	Ser	Tyr	Phe	Asp	Tyr	Trp							
			100					105					110									

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 130
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 130

Glu Val Gln Leu Leu 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 Ser Ser Tyr
 20 25 30

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr 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 Lys Gly Thr Thr Gly Thr Ala Glu Tyr Phe Gln His Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 131
 <211> 118
 <212> PRT
 <213> Homo sapiens

70

<400> 131

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

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

Leu Val Thr Val Ser Ser
115

<210> 132

<211> 118

<212> PRT

<213> Homo sapiens

<400> 132

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

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

Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
35 40 71 45

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys
50 55 60

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

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

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

Met Val Thr Val Ser Ser
115

<210> 133
<211> 121
<212> PRT
<213> Homo sapiens

<400> 133

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95

Ala Arg Val Asp Ile Val Ala Thr Ile Asp Ala Phe Asp Ile Trp Gly
 100 105 110

Gln Gly Thr Met Val Thr Val Ser Ser
 115 120

<210> 134
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 134

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95

Ala Arg Val Asp Ile Val Ala Thr Ile Asn Trp Phe Asp Pro Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 135
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 135

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

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

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

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu
 50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
 115

<210> 136
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 136

74

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

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

Thr Leu Val Thr Val Ser Ser
115

<210> 137
<211> 123
<212> PRT
<213> Homo sapiens

<400> 137

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

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

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95

Ala Arg Val Asp Ile Val Ala Thr Ile Tyr Tyr Tyr Tyr Tyr Gly Met
 100 105 110

Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 139
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL2 Consensus for 6E7 improved Affinity variants

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X is A or G

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X is L or R

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> X is N, K, R, L, or T

<400> 139

Xaa Ala Ser Ser Xaa Gln Xaa
 1 5

<210> 140
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>

<223> CDRL3 Consensus for 6E7 improved Affinity variants

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> X is Q or G

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> X is S or R

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> X is F, L or Y

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> X is R or H

<400> 140

Xaa Gln Ala Asp Xaa Xaa Pro Xaa Thr
1 5

<210> 141

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH2 Consensus for 6E7 improved Affinity variants

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> X is I or T

<220>

<221> MISC_FEATURE

<222> (9)..(9)

<223> X is T or V

<220>

<221> MISC_FEATURE
 <222> (11)..(11)
 <223> X is Y or L

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> X is S or A

<220>
 <221> MISC_FEATURE
 <222> (14)..(14)
 <223> X is S, G, or E

<220>
 <221> MISC_FEATURE
 <222> (17)..(17)
 <223> X is G or D

<400> 141

Xaa	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Xaa	Arg	Xaa	Xaa	Pro	Xaa	Phe	Gln
1				5				10						15	

Xaa

<210> 142
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Consensus for 6E7 improved Affinity variants

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X is Q, G, S, or M

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> X is F or S

<400> 142

Xaa Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Xaa Asp Tyr
 1 5 10

<210> 143
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL2 Antibody ID V3

<400> 143

Ala Ala Ser Ser Arg Gln Asn
 1 5

<210> 144
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL2 Antibody ID V24 C01

<400> 144

Ala Ala Ser Ser Leu Gln Lys
 1 5

<210> 145
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL2 Antibody ID V27 C04

<400> 145

Ala Ala Ser Ser Leu Gln Arg
 1 5

<210> 146
 <211> 7

<212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL2 Anitbody ID V40 D05

<400> 146

Ala Ala Ser Ser Leu Gln Leu
 1 5

<210> 147
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL2 Antibody ID V84 H01

<400> 147

Gly Ala Ser Ser Leu Gln Asn
 1 5

<210> 148
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL3 Antibody ID V40 D05

<400> 148

Gln Gln Ala Asp Arg Phe Pro Arg Thr
 1 5

<210> 149
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL3 Antibody ID V24 C01

<400> 149

Gln Gln Ala Asp Ser Phe Pro His Thr
1 5

<210> 150
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRL3 Antibody ID V48 E01

<400> 150

Gln Gln Ala Asp Ser Leu Pro Arg Thr
1 5

<210> 151
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRL3 Antibody ID V49 E02 V73 G02

<400> 151

Gln Gln Ala Asp Ser Tyr Pro Arg Thr
1 5

<210> 152
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRL3 Antibody ID V60 F01

<400> 152

Gly Gln Ala Asp Ser Phe Pro Arg Thr
1 5

<210> 153
<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID V3

<400> 153

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

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

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

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

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

<210> 154

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID V24 C01

<400> 154

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

83

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

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

Tyr Ala Ala Ser Ser Leu Gln Lys 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 Phe Cys Gln Gln Ala Asp Ser Phe Pro His
85 90 95

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

<210> 155

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID V27 C04

<400> 155

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

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

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

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

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

<210> 156

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID V40 D05

<400> 156

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys

85

100

105

<210> 157
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> VL Amino Acid Sequence Antibody ID V48 E01

<400> 157

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

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

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

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

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

<210> 158
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> VL Amino Acid Sequence Antibody ID V49 E02 V73 G02

<400> 158

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

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

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

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

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

<210> 159

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID V52 E05

<400> 159

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

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

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile

Glu Asp Phe Ala Thr Tyr Phe Cys Gly Gln Ala Asp Ser Phe Pro Arg
85 88 90 95

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

<210> 161
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> VL Amino Acid Sequence Antibody ID V76 G05

<400> 161

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

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

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

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

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

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

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

<210> 162
<211> 107
<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID V84 H01

<400> 162

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

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

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

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

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

<210> 163

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> FR1/CDRH1 border
Antibody ID 6E7

<400> 163

Tyr Ser Phe Thr
1

<210> 164
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy Chain Variable Region Amino Acid Sequences for Reduced
Affinity TREM2 Antibodies - FR1/CDRH1 border

<400> 164

Tyr Ser Phe Ala

1

<210> 165
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> FR1/CDRH1 border
Antibody ID V3 A04

<400> 165

Tyr Ser Phe Gly

1

<210> 166
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> FR1/CDRH1 border
Antibody ID V49 E02

<400> 166

Tyr Ser Phe Asn

1

<210> 167
<211> 4
<212> PRT

<213> Artificial Sequence

<220>

<223> FR1/CDRH1 border
Antibody ID V52 E05

<400> 167

Tyr Ser Phe Glu
1

<210> 168

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> FR1/CDRH1 border
Antibody ID V60 F01

<400> 168

Tyr His Phe Thr
1

<210> 169

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> FR1/CDRH1 border
Antibody ID V76 G05 V84 H01

<400> 169

Tyr Gly Phe Thr
1

<210> 170

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH2 Antibody ID 6E7 V3 A04

<400> 170

Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe	Gln
1				5					10					15	

Asp

<210> 171

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH2 Antibody ID V24 C01

<400> 171

Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Val	Arg	Tyr	Ser	Pro	Ser	Phe	Gln
1				5					10					15	

Gly

<210> 172

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH2 Antibody ID V27 C04

<400> 172

Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ala	Pro	Ser	Phe	Gln
1				5					10					15	

Gly

<210> 173

<211> 17

<212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH2 Antibody ID V49 E02

<400> 173

Thr	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Leu	Ser	Pro	Ser	Phe	Gln
1				5					10					15	

Gly

<210> 174
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH2 Antibody ID V73 G02

<400> 174

Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Gly	Phe	Gln
1				5					10					15	

Gly

<210> 175
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH2 Antibody ID V76 G05

<400> 175

Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Glu	Phe	Gln
1				5					10					15	

Gly

<210> 176
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID V3 A04

<400> 176

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

<210> 177
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID V24 C01

<400> 177

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

<210> 178
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH3 Antibody ID V60 F01

<400> 178

Gln Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Ser Asp Tyr
 1 5 10

<210> 179
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>

<223> CDRH3 Antibody ID V48 E01

<400> 179

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

<210> 180

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID V3 A04

<400> 180

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Ala Ser Tyr
 20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60

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

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
 85 90 95

Ala Arg Gly Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

115

120

<210> 181
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VH Amino Acid Sequence Antibody ID V24 C01

<400> 181

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Val Arg Tyr Ser Pro Ser Phe
 50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
 85 90 95

Ala Arg Ser Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
 100 105 110

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

<210> 182
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID V27 C04

<400> 182

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30

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

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

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
 85 90 95

Val Arg Ser Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
 100 105 110

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

<210> 183

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID V40 D05

<400> 183

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

1 5 10 15 98
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Gly Ser Tyr
 20 25 30
 Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Val Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
 85 90 95
 Ala Arg Gln Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Ser Asp Tyr
 100 105 110
 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 184
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VH Amino Acid Sequence Antibody ID V48 E01

<400> 184

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Gly Ser Tyr
 20 25 30

Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
35 40 99 45

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Val Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
85 90 95

Ala Arg Met Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
100 105 110

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

<210> 185

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain Variable Region Amino Acid Sequences for Improved
Affinity TREM2 Antibodies - VH Amino Acid Sequence

<400> 185

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Asn Ser Tyr
20 25 30

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

Gly Thr Ile Tyr Pro Gly Asp Ser Asp Thr Arg Leu Ser Pro Ser Phe
50 55 60

100

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
85 90 95

Ala Arg Ser Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
100 105 110

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

<210> 186
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> VH Amino Acid Sequence Antibody ID V49 E02

<400> 186

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Glu Ser Tyr
20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys

				85					90	101				95		
Ala	Arg	Gly	Arg	Thr	Phe	Tyr	Tyr	Asp	Ser	Ser	Asp	Tyr	Phe	Asp	Tyr	
			100					105					110			
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120									
<210>	187															
<211>	123															
<212>	PRT															
<213>	Artificial Sequence															
<220>																
<223>	VH Amino Acid Sequence Antibody ID V60 F01															
<400>	187															
Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu	
1				5					10					15		
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	His	Phe	Thr	Ser	Tyr	
			20					25					30			
Trp	Ile	Ala	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met	
		35					40					45				
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Val	Arg	Tyr	Ser	Pro	Ser	Phe	
	50					55					60					
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr	
65					70					75					80	
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Phe	Cys	
				85					90					95		
Ala	Arg	Gln	Arg	Thr	Phe	Tyr	Tyr	Asp	Ser	Ser	Asp	Tyr	Ser	Asp	Tyr	
			100					105						110		

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 102

<210> 188
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> VH Amino Acid Sequence Antibody ID V73 G02

<400> 188

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Gly Ser Tyr
20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Gly Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
85 90 95

Ala Arg Gly Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
100 105 110

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

<210> 189
<211> 123
<212> PRT

<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID V76 G05

<400> 189

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Gly Ser Tyr
20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Glu Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
85 90 95

Ala Arg Gln Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Ser Asp Tyr
100 105 110

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

<210> 190

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID V84 H01

<400> 190

104

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Gly Phe Thr Ser Tyr
 20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
 85 90 95

Ala Arg Gln Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Ser Asp Tyr
 100 105 110

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

<210> 191
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 191

Gly Gln Pro Lys Ala Asn Pro Thr Val Thr Leu Phe Pro Pro Ser Ser
 1 5 10 15

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

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro
 35 40 45

105

Val Lys Ala Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 192
<211> 106
<212> PRT
<213> Homo sapiens

<400> 192

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

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

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser 106
100 105

<210> 193
<211> 105
<212> PRT
<213> Homo sapiens

<400> 193

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

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

Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val
35 40 45

Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys
50 55 60

Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser
65 70 75 80

His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu
85 90 95

Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 194
<211> 106
<212> PRT
<213> Homo sapiens

<400> 194

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

107

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

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 195
<211> 106
<212> PRT
<213> Homo sapiens

<400> 195

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

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

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro
35 40 45

Val Lys Val Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys

65	70	108	80
75			

<213> Homo sapiens

<400> 197

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 20 25 30

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

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 100 105

<210> 198

<211> 330

<212> PRT

<213> Homo sapiens

<400> 198

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
 1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45

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

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
 65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 100 105 110

Pro Ala Pro Glu 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> 199
 <211> 330
 <212> PRT
 <213> Homo sapiens

<400> 199

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
 1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45

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

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr

65		70		112		80									
				75											
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> 200
 <211> 330
 <212> PRT
 <213> Homo sapiens

<400> 200

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
 1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45

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

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
 65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 114 110

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

115

300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 325 330

<210> 201

<211> 330

<212> PRT

<213> Homo sapiens

<400> 201

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
 1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45

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

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
 65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95

Arg 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

116

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

117

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 202

<211> 330

<212> PRT

<213> Homo sapiens

<400> 202

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

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

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu 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 Gly 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> 203

<211> 330

<212> PRT

<213> Homo sapiens

<400> 203

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 Cys Glu
 165 170 175

Glu Gln Tyr Gly Ser Thr Tyr Arg Cys Val Ser Val Leu Thr Val Leu

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
210 215 220 122

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

Ala 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> 205
<211> 330
<212> PRT
<213> Homo sapiens

<400> 205

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 Cys Glu
 165 170 175

Glu Gln Tyr Gly Ser Thr Tyr Arg Cys 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

124

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> 206
<211> 12
<212> PRT
<213> Homo sapiens

<400> 206

Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro
1 5 10

<210> 207
<211> 110
<212> PRT
<213> Homo sapiens

<400> 207

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
 100 105 110

<210> 208
 <211> 345
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
 12G10

<400> 208
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 aagccaggga gtcctcccca gtatctcctg aggtacaaat cagactcaga taagcagcag 180
 ggctctggag tccccagccg cttctctgga tccaaggatg cttcggccaa tgcagggatt 240
 ttactcatct ctgggctcca gtctgaggat gaggctgact attactgtat gatttggtac 300
 agcagtgctg tggatttcgg cggagggacc aaactgaccg tccta 345

<210> 209
 <211> 318
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID 26A10

<400> 209

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tcctatgagc tgactcagcc accctcagtg tccgtgtccc caggacagac agccagcatc      60
acctgctctg gagataaatt gggagataag tatgtttgct ggtatcagca gaagccaggc      120
cagtcccctg tgctgggtcat ctatcaagat agcaagcggc cctcagggat ccctgagcga      180
ttctctggct ccaactctgg gaacacagcc actctgacca tcagcgggac ccaggctatg      240
gatgaggctg actattactg tcaggcgtgg gacagtaaca ctgtggtatt cggcggaggg      300
accaagctga ccgtccta                                     318

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<210> 210

<211> 318

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID 26C10

<400> 210

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tcctttgagc tgactcagcc accctcagtg tccgtgtccc caggacagac agccagcatc      60
acctgctctg gagataaatt gggggataag tatgtttgct ggtatcagca gaagccaggc      120
cagtccccta tgttgggtcat ctatcaagat accaagcggc cctcagggat ccctgaacga      180
ttctctggct ccaactctgg gaacacagcc actctgacca tcagcgggac ccaggctatg      240
gatgaggctg actattactg tcaggcgtgg gacagcagca ctgtggtctt cggcggaggg      300
accaagctga ccgtccta                                     318

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<210> 211

<211> 318

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID

26F2

<400> 211
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 acctgctctg gagataaatt gggggataag tatgtttgct ggtatcagca gaagccaggc 120
 cagtccccctg tgttggtcat ctttcaagat agcaagcggc cctcagggat ccctgagcga 180
 ttctctggct ccaactctgg gaacacagcc actctgacca tcagcgggac ccaggctatg 240
 gatgaggctg actattactg tcaggcgtgg gacagcagca ctgtggtatt cggcggaggg 300
 accaagctga ccgtccta 318

<210> 212
 <211> 318
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
 33B12

<400> 212
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 cagtccccctg tgttggtcat ctatcaagat agcaagcggc cctcagggat ccctgagcga 180
 ttctctggct ccaactctgg gaacacagcc actctgacca tcagcgggac ccaggctatg 240
 gatgaggctg actattactg tcaggcgtgg gacagtagca ctgtggtatt cggcggaggg 300
 accaagctga ccgtccta 318

<210> 213
 <211> 339
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
 24C12

<400> 213

128

ggcatcgtga tgacccagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc 60
atcaactgca agtccagccg gagtgttttg tacagctcca acaataagaa ctacttagct 120
tgggtaccagc agaaaccagg acagcctcct aaggtgctca ttactgggc atctaccg 180
gaatccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc 240
atcagcagcc tgcaggctga agatgtggca gttataact gtcagcaata ttatattact 300
ccgatcacct tcggccaagg gacacgactg gagattaaa 339

<210> 214

<211> 339

<212> PRT

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
24G6

<400> 214

Gly Ala Cys Ala Thr Cys Gly Thr Gly Ala Thr Gly Ala Cys Cys Cys
1 5 10 15

Ala Gly Thr Cys Thr Cys Cys Ala Gly Ala Cys Thr Cys Cys Cys Thr
20 25 30

Gly Gly Cys Thr Gly Thr Gly Thr Cys Thr Cys Thr Gly Gly Gly Cys
35 40 45

Gly Ala Gly Ala Gly Gly Gly Cys Cys Ala Cys Cys Ala Thr Cys Ala
50 55 60

Ala Cys Thr Gly Cys Ala Ala Gly Thr Cys Cys Ala Gly Cys Cys Ala
65 70 75 80

Gly Ala Gly Thr Gly Thr Thr Thr Thr Ala Thr Ala Cys Ala Gly Cys
85 90 95

Thr Cys Cys Ala Ala Cys Ala Ala Thr Ala Ala Gly Cys Ala Cys Thr

	100						105				129		110			
Thr	Cys	Thr 115	Thr	Ala	Gly	Cys	Thr 120	Thr	Gly	Gly	Thr	Ala 125	Cys	Cys	Ala	
Gly	Cys 130	Ala	Gly	Ala	Ala	Ala 135	Cys	Cys	Ala	Gly	Gly 140	Ala	Cys	Ala	Gly	
Cys 145	Cys	Thr	Cys	Cys	Thr 150	Ala	Ala	Gly	Cys	Thr 155	Gly	Cys	Thr	Cys	Ala 160	
Thr	Thr	Thr	Ala	Cys 165	Thr	Gly	Gly	Gly	Cys 170	Ala	Thr	Cys	Thr	Ala 175	Cys	
Cys	Cys	Gly	Gly 180	Gly	Ala	Gly	Thr	Cys 185	Cys	Gly	Gly	Gly	Gly 190	Thr	Cys	
Cys	Cys	Thr 195	Gly	Ala	Cys	Cys	Gly 200	Ala	Thr	Thr	Cys	Ala 205	Gly	Thr	Gly	
Gly	Cys 210	Ala	Gly	Cys	Gly	Gly 215	Gly	Thr	Cys	Thr	Gly 220	Gly	Gly	Ala	Cys	
Ala 225	Gly	Ala	Thr	Thr	Thr 230	Cys	Ala	Cys	Thr	Cys 235	Thr	Cys	Ala	Cys	Cys 240	
Ala	Thr	Cys	Ala	Gly 245	Cys	Ala	Gly	Cys	Cys 250	Thr	Gly	Cys	Ala	Gly 255	Gly	
Cys	Thr	Gly	Ala 260	Ala	Gly	Ala	Thr	Gly 265	Thr	Gly	Gly	Cys	Ala 270	Thr	Thr	
Thr	Thr	Ala 275	Thr	Thr	Ala	Cys	Thr 280	Gly	Thr	Cys	Ala	Gly 285	Cys	Ala	Ala	
Thr	Ala 290	Thr	Thr	Ala	Thr	Ala 295	Gly	Thr	Ala	Cys	Thr 300	Cys	Cys	Gly	Cys	

Thr Cys Ala Cys Thr Thr Thr Cys Gly Gly Cys Gly Gly Ala Gly Gly
 305 310 315 320

Gly Ala Cys Cys Ala Ala Gly Gly Thr Gly Gly Ala Gly Ala Thr Cys
 325 330 335

Ala Ala Ala

<210> 215
 <211> 339
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody
 24A10

<400> 215
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 atcacctgca agtcagcca caatgtttta tacagctcca acaataagaa ctacttagct 120
 tggatcagc agaaaccagg acagcctcct aaactgctca ttactgggc atctaccgg 180
 gaatccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc 240
 atcagcagcc tgcaggctga agatgtggca gtttattact gtcaccaata ttatagtact 300
 ccgtgcagtt ttggccaggg gaccaagctg gagatcaaa 339

<210> 216
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
 10E3

<400> 216
 gaaatagtga tgacgcagtc tccagccacc ctgtctgtgt ctccagggga aagagccacc 60

131

ctctcctgca gggccagtca gagggttagc agcaacttag cctgggtcca gcagaaacct 120
ggccaggctc ccaggctcct catctatggt gcttccacca gggccactgg tattccagcc 180
aggttcagtgc tcagtgggtc tgggacagag ttcactctca ccatcagcag cctgcagtct 240
gaagattttg cattttatta ctgtctgcag gataataatt ggccctccac tttcggccct 300
gggaccaaag tggatatcaa a 321

<210> 217
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
13E7

<400> 217
gaaatagtga tgacgcagtc tccagccacc ctgtctgtgt ctccagggga aagagccacc 60
ctctcctgca gggccagtca gagggttagc agcaacttag cctgggtcca gcagaaacct 120
ggccaggctc ccaggctcct catctatggt gcttccacca gggccactgg tattccagcc 180
aggttcagtgc tcagtgggtc tgggacagag ttcactctca ccatcagcag cctgcagtct 240
gaagattttg cagtttatta ctgtctgcag gataataatt ggccctccac tttcggccct 300
gggaccaaag tggatatcaa a 321

<210> 218
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
25F12

<400> 218
gaaaaagtga tgacgcagtc tccagccacc ctgtctgtgt ctccagggga aagagccacc 60
ctctcctgca gggccagtca gagggttaac aacaacttag cctgggtacca gcagaaacct 120
ggccaggctc ccaggctcct catctatggt gcatccacca gggccactgg tatccagcc 180

aggttcagtg gcagtgggtc tgggacagag ttcactctca ccatcagcag cctgcagtct 240
gaagattttg cagtttatta ctgtcagcag tataataact ggccctcggac gttcggccaa 300
gggaccaagg tggaaatcaa a 321

<210> 219
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID 32E3

<400> 219
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ctctcctgca gggccagtca gattattagc agcaactact tagcctggta ccagcagaaa 120
cctggccagg ctcccaggct cctcatctat agtgcattca gcagggccac tggcatccca 180
gacagggttca gtggcagtgg gtctggggaca gacttcactc tcaccatcag cagactggag 240
cctgaagatt ttgcagtgtg ttactgtcag cagtttgata gtcaccgat caccttcggc 300
cgagggacac gactggacat taaa 324

<210> 220
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID 24F4

<400> 220
gaaatttgtgt tgacgcagtc tccaggcacc ctgtctttgt ctccggggga aagagccacc 60
ctctcctgca gggccagtca gagggttagc agcagctact tagcctggta ccagcagaaa 120
cctggccagg ctcccaggct cctcatctat ggtgcattca gcagggccac tggcatccca 180
gacagggttca gtggcagtgg gtctggggaca gacttcactc tcaccatcag cagactggag 240

cctgaagatt ttgcactgta ttactgtcag cagtatgata cctcaccatt cacttttcggc 300
 cctgggacca aagtggatat caaa 324

<210> 221
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
 16B8

<400> 221
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 gtcacttgctc gggcgagtca ggatattaac agctggtag cctggatatca gcagaaacca 120
 gggaaagccc ctaagctcct gatctatgct gcatcctctt tgcaaactgg ggtcccttca 180
 aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240
 gaagattttg caacttactc ttgtcaacag tctaacagtt tcccgatcac cttcggccaa 300
 gggacacgac tggagattaa a 321

<210> 222
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
 4C5

<400> 222
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 atcacttgctc gggcgagtca gggatttagc aactggtag cctggatatca gcagaaacca 120
 gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaagttgg ggtcccatta 180
 aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240
 gaagattttg caacttacta ttgtcaacag gctgacagtt tccctcgcaa ttttggccag 300
 gggaccaagc tggagatcaa a 321

<210> 223
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
 6E7 V9 A10 V30 C07 V33 C10 V44 D09 V68 F09

<400> 223
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 gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaaatgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240
 gaagattttg caacttactt ttgtcaacag gctgacagtt tccctcgac ttttggccag 300
 gggaccaagc tggagatcaa a 321

<210> 224
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV - Antibody
 ID 5E3

<400> 224
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 gggaaagccc ctaaattcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aagttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240
 gaagattttg caactatta ctgccaacag tatagtactt acccattcac tttcggccct 300
 gggaccaaag tggatatcaa a 321

<210> 225

<211> 321
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID 4G10

<400> 225
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 gggaatgccc ctaagcgctt gatctatgct gcatccagtt tgccaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggccagaa ttcactctca caatcagcag tctgcagcct 240
 gaagattttg caacttatta ctgtctacag cataatagtt acccgtggac gttcggccaa 300
 gggaccaagg tggaaatcac a 321

<210> 226
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID V3 A04

<400> 226
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 gggaaagccc ctaagctcct gatctatgct gcatccagta ggcaaaatgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240
 gaagattttg caacttactt ttgtcaacag gctgacaggt tccctcgac ttttggccag 300
 gggaccaagc tggagatcaa a 321

<210> 227
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V24 C01

<400> 227

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atcacttgtc gggcgagtca gggatttagc agctggtag cctggtagtca gcagaaacca      120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaaaggg ggtcccatca      180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct      240
gaagattttg caacttactt ttgtcaacag gctgacagtt tccctcatac ttttggccag      300
gggaccaagc tggagatcaa a                                                  321

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<210> 228

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V27

<400> 228

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gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc      60
atcacttgtc gggcgagtca gggatttagc agctggtag cctggtagtca gcagaaacca      120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaacgtgg ggtcccatca      180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct      240
gaagattttg caacttactt ttgtcaacag gctgacagtt tccctcgac ttttggccag      300
gggaccaagc tggagatcaa a                                                  321

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<210> 229

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID

V40 D05

<400> 229
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atcacttgtc gggcgagtca ggggtattagc agctgggttag cctgggtatca gcagaaacca 120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaacttgg ggtcccatca 180
aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240
gaagattttg caacttactt ttgtcaacag gctgaccgtt tccctcgacac ttttggccag 300
gggaccaagc tggagatcaa a 321

<210> 230
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V48 E01

<400> 230
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atcacttgtc gggcgagtca ggggtattagc agctgggttag cctgggtatca gcagaaacca 120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaacggg ggtcccatca 180
aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240
gaagattttg caacttactt ttgtcaacag gctgacagtt tgcctcgacac ttttggccag 300
gggaccaagc tggagatcaa a 321

<210> 231
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V49 E02

<400> 231

gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60
 atcacttggtc gggcgagtca ggggtattagc agctgggttag cctgggtatca gcagaaacca 120
 gggaaagccc ctaagctcct gatctatgct gcatccagtc ggcaaaatgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240
 gaagattttg caacttactt ttgtcaacag gctgacagtt atcctcgacac ttttggccag 300
 gggaccaagc tggagatcaa a 321

<210> 232
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
 V52 E05

<400> 232
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 gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagggg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240
 gaagattttg caacttactt ttgtcaacag gctgaccggt tccctcgacac ttttggccag 300
 gggaccaagc tggagatcaa a 321

<210> 233
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
 V60 F01

<400> 233
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 atcacttggtc gggcgagtca ggggtattagc agctgggttag cctgggtatca gcagaaacca 120

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gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagggg ggtcccatca      180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct      240
gaagattttg caacttactt ttgtgggcag gctgacagtt tccctcgacac ttttggccag      300
gggaccaagc tggagatcaa a                                                  321

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<210> 234
<211> 321
<212> DNA
<213> Artificial Sequence

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<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
      V73 G02

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<400> 234
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gggaaagccc ctaagctcct gatctatgct gcatccagtc gtcaaaatgg ggtcccatca      180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct      240
gaagattttg caacttactt ttgtcaacag gctgacagtt atcctcgacac ttttggccag      300
gggaccaagc tggagatcaa a                                                  321

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<210> 235
<211> 321
<212> DNA
<213> Artificial Sequence

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<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
      V76 G05

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<400> 235
gacatccaga tgaccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc      60
atcacttgtc gggcgagtca gggatttagc agctggtag cctggtagtca gcagaaacca      120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagggg ggtcccatca      180

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140

aggttcagcg gcagtggatc tgggagagat ttcactctca ccatcagcag cctgcagcct 240
gaagatTTTtg caacttactt ttgtcaacag gctgacagtt tccctcgcac ttttggccag 300
gggaccaagc tggagatcaa a 321

<210> 236
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V84 H01

<400> 236
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atcacttgtc gggcgagtca ggggtattagc agctgggtag cctgggtatca gcagaaacca 120
gggaaagccc ctaagctcct gatctatggc gcatccagtt tgcaaaatgg ggtcccatca 180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240
gaagatTTTtg caacttactt ttgtcaacag gctgacagtt tcccgcgcac ttttggccag 300
gggaccaagc tggagatcaa a 321

<210> 237
<211> 363
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
12G10

24C12

<400> 237
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tcctgtgcag cctctggatt cacctttagc agctatgccca tgagctgggt ccgccaggct 120
ccagggaagg ggctggagtg ggtctcagct attggtgggt gtggtgttag cacatactgc 180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa tacgctgtat 240

ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gaaattttat 300
 atagcagtgg ctggtttctca ctttgactac tggggccagg gaaccctgggt caccgtctcc 360
 tca 363

<210> 238
 <211> 378
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
 26A10

<400> 238
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 tcctgtgcag cctctagatt caccttcagt agctttggca tgagctgggt ccgccaggct 120
 ccagggaagg ggctggagtg ggtttcatac attagtagta gtagttttac catatattac 180
 gcagactctg tgaagggccg attcaccatc tccagagaca atgccaagaa ttcattctat 240
 ctgcaaatga acagcctgag agacgaggac acggctgtgt attactgtgc gagagagggg 300
 ggtcttacta tggttcgggg agtctcttcc tacggtttgg acgtctgggg ccaagggacc 360
 acggtcaccg tctcctca 378

<210> 239
 <211> 378
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV 26C10

<400> 239
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 ccagggaagg ggctggagtg ggtttcatac attagtagta gtagttttac catatactac 180
 gcagactctg tgaagggccg attcaccatc tccagagaca atgccaagaa ttcgttctat 240

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ctgcaaatga acagcctgag agacgaggac acggctgtgt atttctgtgt gagagagggg      300
gggtataacta tgggttcgggg agtctcttcc tacgggtatgg acgtctggggg ccaagggacc      360
acggtcaccg tctcctca                                                    378

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<210> 240
<211> 378
<212> DNA
<213> Artificial Sequence

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<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
      26F2

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<400> 240
gaggtgcaac tgggtggagtc tgggggagcc ttggtacagc ctgggggggtc cctgagactc      60
tcctgtgcag cctctggatt caccttcagt agctttggca tgagctgggt cgcaggct      120
ccagggaagg ggctggagtg gatttcatac attagtagta gtagttttac catatactac      180
gcagactctg tgaagggccg attcaccatc tccagagaca atgccaagaa ttcattctat      240
ctgcaaatga acagcctgag agacgaggac acggctgtgt atttctgtgc gagagagggg      300
gggtattacta tgggttcgggg agtctcttcc tacgggtatgg acgtctggggg ccaagggacc      360
acggtcaccg tctcctca                                                    378

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<210> 241
<211> 378
<212> DNA
<213> Artificial Sequence

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<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
      33B12

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<400> 241
gaggtgcaac tgggtggagtc tgggggagcc ttggtacagc ctgggggggtc cctgagactc      60
tcctgtgcag cctctggatt caccttcagt agctttggca tgagctgggt cgcaggct      120
ccagggaagg gcctggagtg ggtttcatac attagtaaaa gtagttttac catatactac      180

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143

gcagactctg tgaagggccg attcaccatc tccagagaca atgccaagaa ttcattctat 240
ctgcaaatga acagcctgag agacgaggac acggctgtgt attactgtgc gagagagggg 300
ggctcttacta tgggttcgggg agtctcttcc tacgggtttgg acgtctgggg ccaagggacc 360
acggtcaccg tctcctca 378

<210> 242
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
24G6

<400> 242
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tcctgtgcag cctctggatt cacctttagc agctatgcc a tgagctgggt ccgccaggct 120
ccagggaagg gactggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gaaggcgtat 300
acacctatgg cattctttga ctactggggc cagggaaccc tggtcaccgt ctcctca 357

<210> 243
<211> 348
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
24A10

<400> 243
gaggtgcagg tgttggagtc tgggggaggc ttggtacagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggatt cacctttagc aactatgcc a tgagctgggt ccgccaggct 120
ccagggaagg ggctggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240

ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gaaaggaggg 300
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<210> 244
 <211> 363
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
 10E3

<400> 244
 gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgatgatc 60
 tcctgtaagg gttctggata cagctttacc aactactgga tcggctgggt gcgccagatg 120
 cccgggaaaag gcctggagtg gatggggatc atctatcctg gagactctga taccagatac 180
 agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
 ctgcagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacggaga 300
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 tca 363

<210> 245
 <211> 363
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
 13E7

<400> 245
 gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgatgatc 60
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 cccgggaaaag gcctggagtg gatggggatc atctatcctg gagactctga taccagatac 180
 agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240

145

ctgcagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacggaga 300
caggggatct ggggtgatgc tcttgatttc tggggccaag ggacattggg caccgtctct 360
tca 363

<210> 246
<211> 372
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
25F12

<220>
<221> misc_feature
<222> (366)..(366)
<223> n is a, c, g, or t

<400> 246
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acctgcgctg tctatgggtgg gtccttcagt agttactact ggagctggat ccgccagccc 120
ccagggaagg ggctggagtg gattggggaa atcaatcata gtggaaacac caactacaac 180
ccgtccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccctg 240
aagctgagct ctgtgaccgc cgcggacacg gctgtgtatt actgtgagag agaggggtat 300
tacgatatct tgactgggta tcatgatgct tttgatattt gggaccaagg gacaatggtc 360
accgtntttt ca 372

<210> 247
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
32E3

<400> 247
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60

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tcctgtaagg gttctggata cagctttacc agctactgga tcggctgggt gcgccagatg      120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac      180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac      240
ctgcagtgga gcaccctgaa ggccctcggac accgccatat attactgtgc gcgacatgac      300
attataccag cagcccctgg tgcttttgat atctggggcc aagggaacaat ggtcaccgtc      360
tcttca                                                                    366

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<210> 248
<211> 366
<212> DNA
<213> Artificial Sequence

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<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
      24F4

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<400> 248
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc      60
tcctgtaagg gttctggata cacctttacc agctactgga tcggctgggt gcgccagatg      120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac      180
agcccgtcct tccaaggcca ggtcaccatc tcagtcgaca agtccagcag caccgcctac      240
ctgcagtgga gcagccctgaa ggccctcggac accgccatat attactgtac gagacaggcc      300
atagcagtga ctggtttggg gggtttcgac ccctggggcc agggaaccct ggtcaccgtc      360
tcctca                                                                    366

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<210> 249
<211> 357
<212> DNA
<213> Artificial Sequence

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<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
      16B8

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<400> 249

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147

caggttcagc tgggtgcagtc tggagctgag gtgaagaagc ctggggcctc agtgaaggtc 60
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cctggacaag ggcttgagtg gatgggatgg atcagcgctt acaatggtaa cacaaactat 180
gcacagaagc tccagggcag agtcaccatg accacagaca catccacgag tacagtctac 240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagacgggga 300
tacagctatg gttcctttga ctactggggc cagggaaccc tggtcaccgt ctcctca 357

<210> 250

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
4C5

<400> 250

gaggtgcagc tgggtgcagtc tggagcagaa gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtaagg gttctggaca cagttttacc aactactgga tcgcctgggt gcgccagatg 120
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctgcagtgga gcagcctgaa ggccctcgac accgccgtgt atttctgtgc gagacaaagg 300
acgttttact atgatagtag tggttatitt gactactggg gccagggaac cctgggtcacc 360
gtctcctca 369

<210> 251

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
6E7

<400> 251

gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60

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tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg      120
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac      180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac      240
ctacagtgga gcagcctgaa ggccctcggac accgccatgt atttctgtgc gagacaaagg      300
acgttttatt atgatagtag tgattatfff gactactggg gccagggaac cctggtcacc      360
gtctcctca                                                                    369

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<210> 252
<211> 363
<212> DNA
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<220>
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      5E3

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<400> 252
caggtgcagc tgggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtc      60
tcctgcaagg cttctggata caccttcacc ggctactata tacactgggt gcgacaggcc      120
cctggactag ggcttgagtg gatgggatgg atcaaccctt acagtgggtg cacaacctct      180
gcacagaagt ttcagggcag ggtcaccatg accaggggaca cgtccatcag ctcagcctac      240
atggaactga gcaggctgag atctgacgac acggccgtgt attactgtgc gagagatgga      300
ggctacctgg ccctctacgg tacggacgtc tggggccaag ggaccacggt caccgtctcc      360
tca                                                                    363

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<210> 253
<211> 366
<212> DNA
<213> Artificial Sequence

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<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
      4G10

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<400> 253

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149

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gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc      60
tcctgtaagg gttctggata cagctttccc agctactgga tcgcctgggt gcgccagatg      120
cccggggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac      180
agccccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgccttt      240
ttgaagtgga gtagcctgaa ggcctcggac accgccatgt atttctgtgc gcgacagggt      300
atagaagtga ctggtacggg aggttttgac gtctggggcc aaggggaccac ggtcaccgtc      360
tcctca                                          366

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<210> 254
 <211> 369
 <212> DNA
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<220>
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 V3 A04

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<400> 254
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc      60
tcctgtaagg gttctggata cagttttgcg agctactgga tcgcctgggt gcgccagatg      120
cccggggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac      180
agccccgtcct tccaagatca ggtcaccatc tcagccgaca agtccatcag caccgcctac      240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagagggagg      300
acgttttatt atgatatag tgattatatt gactactggg gccaggggaac cctggtcacc      360
gtgtcctca                                          369

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<210> 255
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
 V24 C01

<400> 255
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagttttacc agctactgga ttgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga tgtgagatac 180
agccccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagatctagg 300
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gtgtcctca 369

<210> 256
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
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V27 C04

<400> 256
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tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
gctccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgt gagaagtagg 300
acgttttatt atgatagtag tgattatfff gactactggg gccaggggaa cctgggtcacc 360
gtgtcctca 369

<210> 257
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V40 D05

<400> 257
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagttttggg agctactgga tcgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga tgtagatac 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
acgttttatt atgatagtag tgattattcg gactactggg gccagggAAC cctggtcacc 360
gtgtcctca 369

<210> 258
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V48 E01

<400> 258
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tcctgtaagg gttctggata cagttttggt agctactgga tcgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga tgtgagatac 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagaatgagg 300
acgttttatt atgatagtag tgattatatt gactactggg gccagggAAC cctggtcacc 360
gtgtcctca 369

<210> 259
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
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V49 E02

<400> 259
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tcctgtaagg gttctggata cagttttaat agctactgga tcgcctgggt gcgccagatg 120
cccgggaaag gcctggagtg gatggggacg atctatcctg gtgactctga taccagactg 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagaagtagg 300
acgttttatt atgatagtag tgattatfff gactactggg gccagggaac cctggtcacc 360
gtgtcctca 369

<210> 260
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V52 E05

<400> 260
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tcctgtaagg gttctggata cagttttgag agctactgga tcgcctgggt gcgccagatg 120
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagagggagg 300
acgttttatt atgatagtag tgattatfff gactactggg gccagggaac cctggtcacc 360
gtgtcctca 369

<210> 261
<211> 369
<212> DNA
<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V60 F01

<400> 261
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tcctgtaagg gttctggata ccattttacc agctactgga tcgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga tgtgagatac 180
agccccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
acgtttttatt atgatagtag tgattatagt gactactggg gccagggaac cctggtcacc 360
gtgtcctca 369

<210> 262
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V73 G02

<400> 262
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tcctgtaagg gttctggata cagtttttgggt agctactgga tcgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agccccggggt tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagagggagg 300
acgtttttatt atgatagtag tgattatattt gactactggg gccagggaac cctggtcacc 360
gtgtcctca 369

<210> 263
<211> 369
<212> DNA
<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V76 G05

<400> 263

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tcctgtaagg gttctggata cagttttggg agctactgga tcgcctgggt gcgccagatg      120
cccgggaaaag gcctggagtg gatgggggatc atctatcctg gtgactctga taccagatac      180
agccccggagt tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac      240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg      300
acgttttatt atgatagtag tgattatagt gactactggg gccagggaac cctggtcacc      360
gtgtcctca                                     369

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<210> 264

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V84 H01

<400> 264

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cccgggaaaag gcctggagtg gatgggggatc atctatcctg gtgacagtga taccagatac      180
agccccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac      240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg      300
acgttttatt atgatagtag tgattattcg gactactggg gccagggaac cctggtcacc      360
gtgtcctca                                     369

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<210> 265

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Secretory peptide #1

<400> 265

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
 1 5 10 15

Leu Arg Gly Ala Arg Cys
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<210> 266

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Secretory peptide #2

<400> 266

Met Ala Trp Ala Leu Leu Leu Thr Leu Leu Thr Gln Gly Thr Gly
 1 5 10 15

Ser Trp Ala

<210> 267

<400> 267

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<210> 268

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Secretory peptide #4

<400> 268

Met Glu Ala Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
 1 5 10 15

Asp Thr Thr Gly
20

<210> 269
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Secretory peptide #5

<400> 269

Met Glu Trp Thr Trp Arg Val Leu Phe Leu Val Ala Ala Ala Thr Gly
1 5 10 15

Ala His Ser

<210> 270
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Secretory peptide #6

<400> 270

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Trp Leu Pro
1 5 10 15

Asp Thr Thr Gly
20

<210> 271
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRL3 Antibody ID V83

<400> 271

Gln Gln Ala Val Ser Phe Pro Arg Thr
1 5

<210> 272

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Secretory peptide #8

<400> 272

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 273

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Secretory peptide #9

<400> 273

Met Glu Trp Ser Trp Val Phe Leu Phe Phe Leu Ser Val Thr Thr Gly
1 5 10 15

Val His Ser

<210> 274

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Secretory peptide #10

<400> 274

Met Asp Ile Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Lys Cys
20

<210> 275

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Secretory peptide #11

<400> 275

Met Asp Ile Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys
20

<210> 276

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Secretory peptide #12

<400> 276

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Thr Phe
20

<210> 277

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

<220>
 <223> Secretory peptide #13

<400> 277

Met	Asp	Thr	Arg	Ala	Pro	Thr	Gln	Leu	Leu	Gly	Leu	Leu	Leu	Leu	Trp
1				5				10					15		

Leu	Pro	Gly	Ala	Arg	Cys
				20	

<210> 278
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Secretory peptide #14

<400> 278

Met	Glu	Thr	Gly	Leu	Arg	Trp	Leu	Leu	Leu	Val	Ala	Val	Leu	Lys	Gly
1				5					10					15	

Val	Gln	Cys
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<210> 279
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Secretory peptide #15

<400> 279

Met	Glu	Thr	Gly	Leu	Arg	Trp	Leu	Leu	Leu	Val	Ala	Val	Leu	Lys	Gly
1				5					10					15	

160

Val Gln Cys Gln Glu
20

<210> 280
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Secretory peptide #16

<400> 280

Met Asp Met Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys
20

<210> 281
<211> 217
<212> PRT
<213> Homo sapiens

<400> 281

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

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
20 25 30

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
35 40 45

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
50 55 60

Gln Tyr Gly Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
65 70 75 80

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
85 90 161 95

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
100 105 110

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
115 120 125

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
130 135 140

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
145 150 155 160

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
165 170 175

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
180 185 190

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
195 200 205

Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215

<210> 282
<211> 217
<212> PRT
<213> Homo sapiens

<400> 282

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

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
20 25 30

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
 35 40 45

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Cys Glu Glu
 50 55 60

Gln Tyr Gly Ser Thr Tyr Arg Cys Val Ser Val Leu Thr Val Leu His
 65 70 75 80

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
 85 90 95

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
 100 105 110

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
 115 120 125

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
 130 135 140

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
 145 150 155 160

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
 165 170 175

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
 180 185 190

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
 195 200 205

Lys Ser Leu Ser Leu Ser Pro Gly Lys
 210 215

<210> 283
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> MOG peptide 35-55

<400> 283

Met Glu Val Gly Trp Tyr Arg Ser Pro Phe Ser Arg Val Val His Leu
 1 5 10 15

Tyr Arg Asn Gly Lys
 20

<210> 284
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL1 Consensus for 6E7 reduced Affinity variants

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X is R OR A

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> X IS S OR R

<400> 284

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

<210> 285
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
<223> CDRL2 Consensus for 6E7 reduced Affinity variants

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> X is A or S

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> X is S or G

<400> 285

Xaa Ala Xaa Ser Leu Gln Asn
1 5

<210> 286
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRL3 Consensus for 6E7 reduced Affinity variants

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X is D or V

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X is R or L

<400> 286

Gln Gln Ala Xaa Ser Phe Pro Xaa Thr
1 5

<210> 287
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
 <223> CDRH1 Consensus for 6E7 reduced Affinity variants

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> X is Y or E

<400> 287

Ser Xaa Trp Ile Ala
 1 5

<210> 288
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRH2 Consensus for 6E7 reduced Affinity variants

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X is G or S

<400> 288

Ile Ile Tyr Pro Xaa Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe Gln
 1 5 10 15

Gly

<210> 289
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> X is T or G

<220>
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 <222> (5)..(5)
 <223> X is Y or R

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> X is Y or G

<400> 289

Gln	Arg	Xaa	Phe	Xaa	Xaa	Asp	Ser	Ser	Asp	Tyr	Phe	Asp	Tyr
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<210> 290
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL1 Antibody ID V57 E10

<400> 290

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

<210> 291
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDRL1 Antibody ID V90 H07

<400> 291

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

<210> 292
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRL2 Antibody ID V10 A11

<400> 292

Ser Ala Ser Ser Leu Gln Asn
1 5

<210> 293
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRL2 Antibody ID V70 F11

<400> 293

Ala Ala Gly Ser Leu Gln Asn
1 5

<210> 294
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRL2 Antibody ID V23 B12

<400> 294

Gln Gln Ala Asp Ser Phe Pro Leu Thr
1 5

<210> 295
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> VL Amino Acid Sequence Antibody ID V10 A11

<400> 295

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 1 5 10 15

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

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

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

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

<210> 296

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID V23 B12

<400> 296

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

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

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 169 45

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

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

<210> 297

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID V57 E10

<400> 297

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

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

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

Tyr Ala Ala Ser Ser Leu Gln Asn 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

170

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

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

<210> 298
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> VL Amino Acid Sequence Antibody ID V70 F11

<400> 298

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

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

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

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

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

<210> 299
<211> 107

171

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID V83 G12

<400> 299

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

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

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

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

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

<210> 300

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID V90 H07

<400> 300

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

172

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

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

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

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

<210> 301
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> FR1/
CDRH1 border
Antibody ID V30 C07

<400> 301

Ser Ser Phe Thr
1

<210> 302
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRH1 Antibody ID V90 H07

<400> 302

Ser Glu Trp Ile Ala
1 5

<210> 303

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH2 Antibody ID V44 D09

<400> 303

Ile Ile Tyr Pro Ser Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe Gln
1 5 10 15

Gly

<210> 304

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH3 Antibody ID V9 A10

<400> 304

Gln Arg Gly Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
1 5 10

<210> 305

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> CDRH3 Antibody ID V33 C10

<400> 305

Gln Arg Thr Phe Tyr Gly Asp Ser Ser Asp Tyr Phe Asp Tyr

174

1 5 10

<210> 306
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRH3 Antibody ID V68 F09

<400> 306

Gln Arg Thr Phe Arg Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
1 5 10

<210> 307
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> VH Amino Acid Sequence Antibody ID V9 A10

<400> 307

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
85 90 95

Ala Arg Gln Arg Gly Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
 100 105 110

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

<210> 308
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VH Amino Acid Sequence Antibody ID V30 C07

<400> 308

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Ser Ser Phe Thr Ser Tyr
 20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
 85 90 95

Ala Arg Gln Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

176

115

120

<210> 309
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> VH Amino Acid Sequence Antibody ID V33 C10

<400> 309

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
85 90 95

Ala Arg Gln Arg Thr Phe Tyr Gly Asp Ser Ser Asp Tyr Phe Asp Tyr
100 105 110

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

<210> 310
<211> 123
<212> PRT
<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID V44 D09

<400> 310

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30

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

Gly Ile Ile Tyr Pro Ser Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
 85 90 95

Ala Arg Gln Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
 100 105 110

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

<210> 311

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> VH Amino Acid Sequence Antibody ID V68 F09

<400> 311

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

1 5 10 15 178
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30
 Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
 85 90 95
 Ala Arg Gln Arg Thr Phe Arg Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
 100 105 110
 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 312
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VH Amino Acid Sequence Antibody ID V90 H07

<400> 312

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Glu
 20 25 30

Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
35 40 179 45

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
85 90 95

Ala Arg Gln Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
100 105 110

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

<210> 313
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V10 A11

<400> 313
gacatccaga tgaccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60
atcacttgtc gggcgagtca ggggtattagc agctgggtag cctgggtatca gcagaaacca 120
gggaaaagccc ctaagctcct gatctattct gcatccagtt tgcaaaaatgg ggtcccatca 180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240
gaagattttg caacttactt ttgtcaacag gctgacagtt tccctcgac ttttggccag 300
gggaccaagc tggagatcaa a 321

<210> 314
<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V23 B12

<400> 314

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gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc      60
atcacttggtc gggcgagtca ggggtattagc agctgggttag cctgggtatca gcagaaacca    120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaaatgg ggtcccatca      180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct      240
gaagattttg caacttactt ttgtcaacag gctgacagtt tccctcttac ttttggccag      300
gggaccaagc tggagatcaa a                                                  321

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<210> 315

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V57 E10

<400> 315

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gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc      60
atcacttggtg cggcgagtca ggggtattagc agctgggttag cctgggtatca gcagaaacca    120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaaatgg ggtcccatca      180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct      240
gaagattttg caacttactt ttgtcaacag gctgacagtt tccctcgacac ttttggccag      300
gggaccaagc tggagatcaa a                                                  321

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<210> 316

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V70 F11

<400> 316

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gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc      60
atcacttgtc gggcgagtca gggatttagc agctggtag cctggtagtca gcagaaacca      120
gggaaagccc ctaagctcct gatctatgct gcagggagtt tgcaaaatgg ggtcccatca      180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct      240
gaagattttg caacttactt ttgtcaacag gctgacagtt tccctcgac ttttggccag      300
gggaccaagc tggagatcaa a                                              321
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<210> 317

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V83

<400> 317

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gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc      60
atcacttgtc gggcgagtca gggatttagc agctggtag cctggtagtca gcagaaacca      120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaaatgg ggtcccatca      180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct      240
gaagattttg caacttactt ttgtcaacag gctgtgagtt tccctcgac ttttggccag      300
gggaccaagc tggagatcaa a                                              321
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<210> 318

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V90 H07

<400> 318
gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60
atcacttgtc gggcgagtc ggggtattagc agatgggttag cctgggtatca gcagaaacca 120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaaatgg ggtcccatca 180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240
gaagattttg caacttactt ttgtcaacag gctgacagtt tccctcgacac ttttggccag 300
gggaccaagc tggagatcaa a 321

<210> 319
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V9 A10

<400> 319
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
gggttttatt atgatagtag tgattatfff gactactggg gccagggaac cctggtcacc 360
gtgtcctca 369

<210> 320
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V10 A11

V23 B12 V57 E10 V70 F11 V83 G12

<400> 320
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg 120
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
acgttttatt atgatagtag tgattatfff gactactggg gccagggaac cctggtcacc 360
gtgtcctca 369

<210> 321
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V30 C07

<400> 321
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc 60
tcctgtaagg gttctggatc gagttttacc agctactgga tcgcctgggt gcgccagatg 120
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
acgttttatt atgatagtag tgattatfff gactactggg gccagggaac cctggtcacc 360
gtgtcctca 369

<210> 322
<211> 369
<212> DNA
<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V33 C10

<400> 322
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agccccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
acgttttatg gggatagtag tgattatfff gactactggg gccagggaac cctggtcacc 360
gtgtcctca 369

<210> 323
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V44 D09

<400> 323
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatccta gtgactctga taccagatac 180
agccccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
acgttttatt atgatagtag tgattatfff gactactggg gccagggaac cctggtcacc 360
gtgtcctca 369

<210> 324
<211> 369
<212> DNA
<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V68 F09

<400> 324

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gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc      60
tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg      120
cccgggaaaag gcctggagtg gatgggggatc atctatcctg gtgactctga taccagatac      180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac      240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg      300
acgttttaggt atgatagtag tgattatfff gactactggg gccaggggaa cctgggtcacc      360
gtgtcctca                                     369

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<210> 325

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V90 H07

<400> 325

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gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc      60
tcctgtaagg gttctggata cagttttacc agcgagtgga tcgcctgggt gcgccagatg      120
cccgggaaaag gcctggagtg gatgggggatc atctatcctg gtgactctga taccagatac      180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac      240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg      300
acgttttatt atgatagtag tgattatfff gactactggg gccaggggaa cctgggtcacc      360
gtgtcctca                                     369

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<210> 326

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> LC variable region sequence 24G6

<400> 326

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

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

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

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
 85 90 95

Tyr Tyr Ser Thr Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 327

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> HC variable region sequence 24G6

<400> 327

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

187
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Glu Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr 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 Lys Ala Tyr Thr Pro Met Ala Phe Phe Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 328
 <211> 107
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> LC variable region sequence 6E7

 <400> 328

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 188 45

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

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

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

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

<210> 329
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> HC variable region sequence 6E7

<400> 329

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ala Asp Ala Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
85 90 95

Ala Arg Gln Arg Thr Phe Tyr Tyr Asp Ser Ser Asp Tyr Phe Asp Tyr
100 105 110

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

<210> 330

<211> 107

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> LC variable region sequence 13E7

<400> 330

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Asp Ile Lys
100 105

<210> 331
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HC variable region sequence 13E7

<400> 331

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ala Asp Ala Arg Tyr Ser Pro Ser Phe
 50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
 85 90 95

Ala Arg Arg Arg Gln Gly Ile Phe Gly Asp Ala Leu Asp Phe Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 332
 <211> 107
 <212> PRT
 <213> Artificial Sequence

191

<220>

<223> LC variable region sequence 5E3

<400> 332

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Asp Ile Lys
100 105

<210> 333

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> HC variable region sequence 5E3

<400> 333

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

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

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

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

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 334

<211> 242

<212> PRT

<213> Artificial Sequence

<220>

<223> AA sequence LC SST28347

<400> 334

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
 1 5 10 15

Leu Arg Gly Ala Arg Cys Asp Ile Val Met Thr Gln Ser Pro Asp Ser
 20 25 30

Leu Ala Val Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser
 35 40 45

Gln Ser Val Leu Tyr Ser Ser Asn Asn Lys His Phe Leu Ala Trp Tyr

50 55 193 60
 Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser
 65 70 75 80
 Thr Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly
 85 90 95
 Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
 100 105 110
 Val Tyr Tyr Cys Gln Gln Tyr Tyr Ser Thr Pro Leu Thr Phe Gly Gly
 115 120 125
 Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe
 130 135 140
 Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val
 145 150 155 160
 Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp
 165 170 175
 Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr
 180 185 190
 Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr
 195 200 205
 Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val
 210 215 220
 Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly
 225 230 235 240
 Glu Cys

<210> 335
 <211> 471
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> AA sequence HC SST28347

<400> 335

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
 1 5 10 15

Leu Arg Gly Ala Arg Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly
 20 25 30

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
 35 40 45

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

Lys Gly Leu Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr
 65 70 75 80

Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
 85 90 95

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
 100 105 110

Thr Ala Val Tyr Tyr Cys Ala Lys Ala Tyr Thr Pro Met Ala Phe Phe
 115 120 125

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
 130 135 140

Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser

145		150		195		160
				155		
Gly	Gly	Thr	Ala	Ala	Leu	Gly
			165			Cys
					Leu	Val
					170	Lys
						Asp
						Tyr
						Phe
						Pro
						Glu
						175
Pro	Val	Thr	Val	Ser	Trp	Asn
			180			Ser
						Gly
						185
						Ala
						Leu
						Thr
						Ser
						Gly
						190
Thr	Phe	Pro	Ala	Val	Leu	Gln
			195			Ser
						200
						Ser
						Gly
						Leu
						Tyr
						Ser
						205
						Leu
						Ser
						Ser
Val	Val	Thr	Val	Pro	Ser	Ser
			210			Ser
						Leu
						Gly
						Thr
						Gln
						220
						Thr
						Tyr
						Ile
						Cys
Asn	Val	Asn	His	Lys	Pro	Ser
					230	Asn
						Thr
						Lys
						Val
						235
						Asp
						Lys
						Lys
						Val
						Glu
						240
Pro	Lys	Ser	Cys	Asp	Lys	Thr
					245	His
						Thr
						Cys
						250
						Pro
						Pro
						Cys
						Pro
						Ala
						255
						Pro
Glu	Leu	Leu	Gly	Gly	Pro	Ser
			260			Val
						Phe
						Leu
						265
						Phe
						Pro
						Pro
						Lys
						270
						Pro
						Lys
						Val
						Val
						Val
Asp	Thr	Leu	Met	Ile	Ser	Arg
			275			Thr
						Pro
						Glu
						Val
						Thr
						Cys
						285
						Val
						Val
						Val
Asp	Val	Ser	His	Glu	Asp	Pro
						295
						Glu
						Val
						Lys
						Phe
						Asn
						300
						Trp
						Tyr
						Val
						Asp
Gly	Val	Glu	Val	His	Asn	Ala
					310	Lys
						Thr
						Lys
						Pro
						315
						Cys
						Glu
						Glu
						Gln
						320
						Tyr
Gly	Ser	Thr	Tyr	Arg	Cys	Val
						325
						Ser
						Val
						Leu
						330
						Thr
						Val
						Leu
						His
						Gln
						335
						Asp
Trp	Leu	Asn	Gly	Lys	Glu	Tyr
			340			Lys
						Cys
						345
						Lys
						Val
						Ser
						Asn
						Lys
						Ala
						Leu
						350

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 355 360 365

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
 370 375 380

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 385 390 395 400

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 405 410 415

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 420 425 430

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 435 440 445

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 450 455 460

Leu Ser Leu Ser Pro Gly Lys
 465 470

<210> 336

<211> 468

<212> PRT

<213> Artificial Sequence

<220>

<223> AA sequence HC SST204812

<400> 336

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
 1 5 10 15

Leu Arg Gly Ala Arg Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly

197

20

25

30

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
35 40 45

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

Lys Gly Leu Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr
65 70 75 80

Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
85 90 95

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
100 105 110

Thr Ala Val Tyr Tyr Cys Ala Lys Ala Tyr Thr Pro Met Ala Phe Phe
115 120 125

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
130 135 140

Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Arg Ser Thr Ser
145 150 155 160

Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
165 170 175

Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
180 185 190

Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
195 200 205

Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr Tyr Thr Cys
210 215 220

Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys Thr Val Glu
225 230 235 240

Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
245 250 255

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
260 265 270

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
275 280 285

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
290 295 300

Val His Asn Ala Lys Thr Lys Pro Cys Glu Glu Gln Tyr Gly Ser Thr
305 310 315 320

Tyr Arg Cys Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
325 330 335

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
340 345 350

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
355 360 365

Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
370 375 380

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
385 390 395 400

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
405 410 415

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 420 425 430

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 435 440 445

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 450 455 460

Ser Pro Gly Lys
 465

<210> 337
 <211> 236
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> AA sequence SST29857

<400> 337

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
 1 5 10 15

Leu Arg Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
 20 25 30

Val Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser
 35 40 45

Gln Gly Ile Ser Ser Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 50 55 60

Ala Pro Lys Leu Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val
 65 70 75 80

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 85 90 95

200

Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln
100 105 110

Ala Asp Ala Phe Pro Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
130 135 140

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
145 150 155 160

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
165 170 175

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
180 185 190

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
195 200 205

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
210 215 220

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235

<210> 338

<211> 236

<212> PRT

<213> Artificial Sequence

<220>

<223> AA sequence LC SST29857

<400> 338

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Trp

201																	
1				5				10				15					
Leu	Arg	Gly	Ala	Arg	Cys	Glu	Ile	Val	Met	Thr	Gln	Ser	Pro	Ala	Thr		
			20				25						30				
Leu	Ser	Val	Ser	Pro	Gly	Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser		
			35				40						45				
Gln	Ser	Val	Ser	Ser	Asn	Leu	Ala	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Gln		
			50				55						60				
Ala	Pro	Arg	Leu	Leu	Ile	Tyr	Gly	Ala	Ser	Thr	Arg	Ala	Thr	Gly	Ile		
65						70						75			80		
Pro	Ala	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr		
			85						90						95		
Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Leu	Gln		
			100						105						110		
Asp	Asn	Asn	Phe	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Asp	Ile		
			115						120						125		
Lys	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp		
130						135						140					
Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn		
145						150						155			160		
Phe	Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu		
			165						170						175		
Gln	Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp		
			180						185						190		
Ser	Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr		
195						200						205					

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
 210 215 220

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230 235

<210> 339
 <211> 236
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> AA sequence LC SST202443

<400> 339

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
 1 5 10 15

Leu Arg Gly Ala Arg Cys Glu Ile Val Met Thr Gln Ser Pro Ala Thr
 20 25 30

Leu Ser Val Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser
 35 40 45

Gln Ser Val Ser Ser Asn Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln
 50 55 60

Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile
 65 70 75 80

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
 85 90 95

Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Val Tyr Tyr Cys Leu Gln
 100 105 110

Asp Asn Asn Phe Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Asp Ile

204

Val Lys Lys Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly
35 40 45

Tyr Ser Phe Thr Ser Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly
50 55 60

Lys Gly Leu Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ala Asp Ala
65 70 75 80

Arg Tyr Ser Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys
85 90 95

Ser Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp
100 105 110

Thr Ala Met Tyr Phe Cys Ala Arg Arg Arg Gln Gly Ile Phe Gly Asp
115 120 125

Ala Leu Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala
130 135 140

Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser
145 150 155 160

Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe
165 170 175

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
180 185 190

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
195 200 205

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
210 215 220

Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys

225		230		205		240									
				235											
Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro
				245					250					255	
Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys
			260					265					270		
Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val
		275					280					285			
Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr
	290					295					300				
Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Cys	Glu	Glu
305					310					315					320
Gln	Tyr	Gly	Ser	Thr	Tyr	Arg	Cys	Val	Ser	Val	Leu	Thr	Val	Leu	His
				325					330					335	
Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys
			340					345					350		
Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln
		355					360					365			
Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met
	370					375					380				
Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro
385					390					395					400
Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn
				405					410					415	
Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu
			420					425					430		

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
 435 440 445

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
 450 455 460

Lys Ser Leu Ser Leu Ser Pro Gly Lys
 465 470

<210> 341

<211> 236

<212> PRT

<213> Artificial Sequence

<220>

<223> AA sequence LC SST29825

<400> 341

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
 1 5 10 15

Leu Arg Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
 20 25 30

Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser
 35 40 45

Gln Gly Ile Ser Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 50 55 60

Ala Pro Lys Ser Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val
 65 70 75 80

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 85 90 95

Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln

100 105 207 110
 Tyr Ser Thr Tyr Pro Phe Thr Phe Gly Gln Gly Thr Lys Val Asp Ile
 115 120 125
 Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
 130 135 140
 Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
 145 150 155 160
 Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
 165 170 175
 Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
 180 185 190
 Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
 195 200 205
 Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
 210 215 220
 Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230 235

<210> 342
 <211> 470
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> AA sequence HC SST29825

 <400> 342

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
 1 5 10 15

208

Leu Arg Gly Ala Arg Cys Gln Val Gln Leu Val Gln Ser Gly Ala Glu
20 25 30

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
35 40 45

Tyr Thr Phe Thr Gly Tyr Tyr Ile His Trp Val Arg Gln Ala Pro Gly
50 55 60

Gln Gly Leu Glu Trp Met Gly Trp Ile Asn Pro Tyr Ser Gly Gly Thr
65 70 75 80

Thr Ser Ala Gln Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr
85 90 95

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

Thr Ala Val Tyr Tyr Cys Ala Arg Asp Ala Gly Tyr Leu Ala Leu Tyr
115 120 125

Gly Thr Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala
130 135 140

Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Arg Ser
145 150 155 160

Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe
165 170 175

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
180 185 190

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
195 200 205

Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr Tyr

210				215				209				220			
Thr 225	Cys	Asn	Val	Asp	His 230	Lys	Pro	Ser	Asn	Thr 235	Lys	Val	Asp	Lys	Thr 240
Val	Glu	Arg	Lys	Cys 245	Cys	Val	Glu	Cys	Pro 250	Pro	Cys	Pro	Ala	Pro 255	Glu
Leu	Leu	Gly	Gly 260	Pro	Ser	Val	Phe	Leu 265	Phe	Pro	Pro	Lys	Pro 270	Lys	Asp
Thr	Leu	Met 275	Ile	Ser	Arg	Thr	Pro 280	Glu	Val	Thr	Cys	Val 285	Val	Val	Asp
Val	Ser 290	His	Glu	Asp	Pro	Glu 295	Val	Lys	Phe	Asn	Trp 300	Tyr	Val	Asp	Gly
Val 305	Glu	Val	His	Asn	Ala 310	Lys	Thr	Lys	Pro	Cys 315	Glu	Glu	Gln	Tyr	Gly 320
Ser	Thr	Tyr	Arg	Cys 325	Val	Ser	Val	Leu	Thr 330	Val	Leu	His	Gln	Asp 335	Trp
Leu	Asn	Gly	Lys 340	Glu	Tyr	Lys	Cys	Lys 345	Val	Ser	Asn	Lys	Ala 350	Leu	Pro
Ala	Pro	Ile 355	Glu	Lys	Thr	Ile	Ser 360	Lys	Ala	Lys	Gly	Gln 365	Pro	Arg	Glu
Pro	Gln 370	Val	Tyr	Thr	Leu	Pro 375	Pro	Ser	Arg	Glu	Glu 380	Met	Thr	Lys	Asn
Gln 385	Val	Ser	Leu	Thr	Cys 390	Leu	Val	Lys	Gly	Phe 395	Tyr	Pro	Ser	Asp	Ile 400
Ala	Val	Glu	Trp	Glu 405	Ser	Asn	Gly	Gln	Pro 410	Glu	Asn	Asn	Tyr	Lys 415	Thr

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
 420 425 430

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
 435 440 445

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
 450 455 460

Ser Leu Ser Pro Gly Lys
 465 470

<210> 343
 <211> 339
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> LC variable region sequence SST28347 and SST204812

<400> 343
 gacatcgtga tgaccagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc 60
 atcaactgca agtccagcca gagtgtttta tacagctcca acaataagca cttcttagct 120
 tgggtaccagc agaaaccagg acagcctcct aagctgctca ttactgggc atctaccg 180
 gagtccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc 240
 atcagcagcc tgcaggctga agatgtggca gtttattact gtcagcaata ttatagtact 300
 ccgctcactt tcggcggagg gaccaagggtg gagatcaaa 339

<210> 344
 <211> 357
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> HC variable region sequence SST28347 and SST204812

<400> 344

211

gaggtgcagc tgttggagtc tgggggaggc ttggtacagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggatt cacctttagc agctatgcc a tgagctgggt ccgccaggct 120
ccaggggaagg gactggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180
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<220>
<223> LC variable region sequence SST29857

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aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240
gaagattttg caacttactt ttgtcaacag gctgacgctt tccctcgac ttttggccag 300
gggaccaagc tggagatcaa a 321

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<211> 369
<212> DNA
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<220>
<223> HC variable region sequence SST29857

<400> 346
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 gtgtcctca 369

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<220>
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<400> 347
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 aggttcagtg gcagtgggtc tgggacagag ttcactctca ccatcagcag cctgcagcct 240
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 gggaccaaag tggatatcaa a 321

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 <211> 363
 <212> DNA
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<220>
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 cccgggaaaag gcctggagtg gatggggatc atctatcctg gagatgctga tgccagatac 180
 agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240

213

ctgcagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gaggcggaga 300
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<212> DNA
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gggaccaaag tggatatcaa a 321

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<212> DNA
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<220>
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cctggacaag ggcttgagtg gatgggatgg atcaaccctt acagtgggtg cacaacctct 180
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363

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NA sequence LC SST28347

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 tacagcctca gcagcaccct gacgctgagc aaagcagact acgagaaaca caaagtctac 660
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NA sequence HC SST28347

<400> 352

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NA sequence HC SST204812

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217

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<210> 354
<211> 708
<212> DNA
<213> Artificial Sequence

<220>
<223> NA sequence LC SST29857

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<212> DNA
<213> Artificial Sequence

<220>

<223> NA sequence HC SST29857

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1416

<210> 356

<211> 708

<212> DNA

<213> Artificial Sequence

<220>

<223> NA sequence LC SST202443

<400> 356

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ctgacgctga gcaaagcaga ctacgagaaa cacaaagtct acgcctgcga agtcacccat 660

cagggcctga gctcgcccggt cacaaagagc ttcaacaggg gagagtgt 708

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<223> NA sequence HC SST202443

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<211> 708

<212> DNA

<213> Artificial Sequence

<220>

<223> NA sequence LC SST29825

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<212> DNA

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<210> 360

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptides from epitope mapping experiments

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