

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

<150> 62/488,691

<151> 2017-04-21

<150> 62/530,753

<151> 2017-07-10

<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
<212> PRT
<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

<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
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>
<223> CRDL1 Antibody ID 12G10

<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>

<223> CDRL1 Antibody ID 25F12

<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
<213> Artificial Sequence

<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>

<223> CDRL2 Antibody ID 26C10

<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
<213> Artificial Sequence

<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
<213> Artificial Sequence

<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

<213> Artificial Sequence

<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
1 5

<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

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 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 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

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

<220>

<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
<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID 16B8

<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

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<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
<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

<220>

<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

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

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 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

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

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 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 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
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

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

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
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 70 75 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

<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					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

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
35 40 45

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

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr 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 Tyr Gly Asp Tyr Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val
100 105 110

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

<210> 138

<211> 125
<212> PRT
<213> Homo sapiens

<400> 138

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 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 Antibody 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

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
 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
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 Arg Phe Pro Arg
85 90 95

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

<210> 160

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> VL Amino Acid Sequence Antibody ID V60 F01

<400> 160

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 Gly Gln Ala Asp Ser Phe Pro Arg
85 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

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 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

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

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

<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

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

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
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

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 75 80

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

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

<210> 196
<211> 106
<212> PRT
<213> Homo sapiens

<400> 196

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
1 5 10 15

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

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

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
50 55 60

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

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 197
<211> 107
<212> PRT
<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 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195 200 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225 230 235 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 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
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp

145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195 200 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225 230 235 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 201

<211> 330

<212> PRT

<213> Homo sapiens

<400> 201

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

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

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

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

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> 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
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> 204
<211> 326
<212> PRT
<213> Homo sapiens

<400> 204

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

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

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

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
100 105 110

Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
115 120 125

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
130 135 140

Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly
145 150 155 160

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn
165 170 175

Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
180 185 190

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro
195 200 205

Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu
210 215 220

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
225 230 235 240

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
245 250 255

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

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
caggctgtgc cgactcagcc gtcttccctc tctgcatctc ctggagtatt agccagtctc 60
acctgcacct tacgcagtgg catcaatgtt ggtacctaca ggatatactg gtaccagcag 120
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
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

<210> 210
<211> 318
<212> DNA
<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID 26C10

<400> 210

```
tcctttgagc tgactcagcc accctcagtg tccgtgtccc caggacagac agccagcatc      60
acctgctctg gagataaatt gggggataag tatgtttgct ggtatcagca gaagccaggc      120
cagtcccccta tgttggtcat ctatcaagat accaagcggc cctcagggat ccctgaacga      180
ttctctggct ccaactctgg gaacacagcc actctgacca tcagcgggac ccaggctatg      240
gatgaggctg actattactg tcaggcgtgg gacagcagca ctgtggtctt cggcggaggg      300
accaagctga ccgtccta                                          318
```

<210> 211

<211> 318

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID 26F2

<400> 211

```
tcctatgagc tgactcagcc accctcagtg tccgtgtccc caggacagac agccagcatc      60
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

tcctatgagc tgactcagcc accctcagtg tccgtgtccc caggacagac agccagcatc	60
acctgctctg gagataaatt gggggataag tatgtttgct ggtatcagca gaagccaggc	120
cagtccccctg tgttgggtcat 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

ggcatcgtga tgacccagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc	60
atcaactgca agtccagccg gagtgttttg tacagctcca acaataagaa ctacttagct	120
tggtaccagc agaaaccagg acagcctcct aagggtgctca ttactgggc atctaccgg	180
gaatccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc	240
atcagcagcc tgcaggctga agatgtggca gtttataact 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
100 105 110

Thr Cys Thr Thr Ala Gly Cys Thr Thr Gly Gly Thr Ala Cys Cys Ala
115 120 125

Gly Cys Ala Gly Ala Ala Ala Cys Cys Ala Gly Gly Ala Cys Ala Gly
130 135 140

Cys Cys Thr Cys Cys Thr Ala Ala Gly Cys Thr Gly Cys Thr Cys Ala
145 150 155 160

Thr Thr Thr Ala Cys Thr Gly Gly Gly Cys Ala Thr Cys Thr Ala Cys
165 170 175

Cys Cys Gly Gly Gly Ala Gly Thr Cys Cys Gly Gly Gly Gly Thr Cys
180 185 190

Cys Cys Thr Gly Ala Cys Cys Gly Ala Thr Thr Cys Ala Gly Thr Gly
195 200 205

Gly Cys Ala Gly Cys Gly Gly Gly Thr Cys Thr Gly Gly Gly Ala Cys

210

215

220

Ala Gly Ala Thr Thr Thr Cys Ala Cys Thr Cys Thr Cys Ala Cys Cys
 225 230 235 240

Ala Thr Cys Ala Gly Cys Ala Gly Cys Cys Thr Gly Cys Ala Gly Gly
 245 250 255

Cys Thr Gly Ala Ala Gly Ala Thr Gly Thr Gly Gly Cys Ala Thr Thr
 260 265 270

Thr Thr Ala Thr Thr Ala Cys Thr Gly Thr Cys Ala Gly Cys Ala Ala
 275 280 285

Thr Ala Thr Thr Ala Thr Ala Gly Thr Ala Cys Thr Cys Cys Gly Cys
 290 295 300

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

gacatcgtga tgacccagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc 60

atcacctgca agtccagcca caatgtttta tacagctcca acaataagaa ctacttagct 120

tggtatcagc 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
ctctcctgca gggccagtca gagtgttagc agcaacttag cctggttcca gcagaaacct	120
ggccaggctc ccaggctcct catctatggg gcttccacca gggccactgg tattccagcc	180
aggttcagtg tcagtgggtc tgggacagag ttcactctca ccatcagcag cctgcagtct	240
gaagattttg cattttatta ctgtctgcag gataataatt ggcctccac 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 gagtgttagc agcaacttag cctggttcca gcagaaacct	120
ggccaggctc ccaggctcct catctatggg gcttccacca gggccactgg tattccagcc	180
aggttcagtg tcagtgggtc tgggacagag ttcactctca ccatcagcag cctgcagtct	240
gaagattttg cagtttatta ctgtctgcag gataataatt ggcctccac 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 gagtgttaac aacaacttag cctggtacca gcagaaacct 120
ggccaggctc ccaggctcct catctatggg gcatccacca gggccactgg tatcccagcc 180
aggttcagtg gcagtgggtc tgggacagag ttcactctca ccatcagcag cctgcagtct 240
gaagattttg cagtttatta ctgtcagcag tataataact ggcctcggac 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
gaatttgtgt tgacgcagtc tccaggcacc ctgtctttgt ctccggggga aagagccacc 60
ctctcctgca gggccagtca gattattagc agcaactact tagcctggta ccagcagaaa 120
cctggccagg ctcccaggct cctcatctat agtgcattca gcagggccac tggcatccca 180
gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag 240
cctgaagatt ttgcagtgtg ttactgtcag cagtttgata gctcaccgat 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
gaaattgtgt tgacgcagtc tccaggcacc ctgtctttgt ctccagggga aagagccacc 60
ctctcctgca gggccagtca gagtgttagc agcagctact tagcctggta ccagcagaaa 120
cctggccagg ctcccaggct cctcatctat ggtgcatcca gcagggccac tggcatccca 180
gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag 240
cctgaagatt ttgcactgta ttactgtcag cagtatgata cctcaccatt cactttcggc 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
gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60
gtcacttgct gggcgagtca ggatattaac agctggtttag cctgggtatca gcagaaacca 120
gggaaagccc ctaagctcct gatctatgct gcatcctctt tgcaaactgg ggtcccttca 180
aggttcagcg gcagtggatc tgggacagat ttcactctca 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

gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc gggcgagtca gggatttagc aactggtag cctggtagtca gcagaaacca	120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaagttgg ggtcccatta	180
aggttcagcg gcagtggatc tgggacagat ttcactctca 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

gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc gggcgagtca gggatttagc agctggtag cctggtagtca gcagaaacca	120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaaatgg ggtcccatta	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct	240
gaagattttg caacttactt ttgtcaacag gctgacagtt tccctcgcac 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
gacatccaga tgacccagtc tccatcctca ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgctc gggcgagtca gggcattagc aattatttag cctggtttca gcagaaacca 120
gggaaagccc ctaaatccct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
aagttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240
gaagattttg caacttatta 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
gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgcc gggcaagtca gggcataaga aatgatttag gctggatatca gcagaaacca 120
gggaatgccc ctaagcgctt gatctatgct gcatccagtt tgccaagtgg ggtcccatca 180
aggttcagcg gcagtggatc tgggccagaa ttactctca 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
gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60

atcacttgtc gggcgagtca gggatttagc agctgggtag cctgggtatca gcagaaacca	120
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	
gacatccaga tgaccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc gggcgagtca gggatttagc agctgggtag cctgggtatca 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

<210> 228
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID V27

<400> 228	
gacatccaga tgaccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc gggcgagtca gggatttagc agctgggtag cctgggtatca gcagaaacca	120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaacgtgg ggtcccatca	180

aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct	240
gaagattttg caacttactt ttgtcaacag gctgacagtt tccctcgacac ttttggccag	300
gggaccaagc tggagatcaa a	321

<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	
gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc gggcgagtca ggggtattagc agctgggtag cctgggtatca gcagaaacca	120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaacttgg ggtcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct	240
gaagattttg caacttactt ttgtcaacag gctgaccggt 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	
gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc gggcgagtca ggggtattagc agctgggtag cctgggtatca gcagaaacca	120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaacggg ggtcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca 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 tgaccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60

atcacttgtc gggcgagtca gggatttagc agctggtag cctggatatca gcagaaacca 120

gggaaagccc ctaagctcct gatctatgct gcatccagtc ggcaaaatgg ggtcccatca 180

aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240

gaagattttg caacttactt ttgtcaacag gctgacagtt atcctcgac 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

gacatccaga tgaccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60

atcacttgtc gggcgagtca gggatttagc agctggtag cctggatatca gcagaaacca 120

gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagggg ggtcccatca 180

aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240

gaagattttg caacttactt ttgtcaacag gctgaccgtt tccctcgac 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
gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60
atcacttggtc gggcgagtca ggggtattagc agctgggttag cctgggtatca gcagaaacca 120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagggg ggtcccatca 180
aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240
gaagattttg caacttactt ttgtgggcag gctgacagtt tccctcgac ttttggccag 300
gggaccaagc tggagatcaa a 321

<210> 234
<211> 321
<212> DNA
<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V73 G02

<400> 234
gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60
atcacttggtc gggcgagtca ggggtattagc agctgggttag cctgggtatca gcagaaacca 120
gggaaagccc ctaagctcct gatctatgct gcatccagtc gtcaaaatgg ggtcccatca 180
aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240
gaagattttg caacttactt ttgtcaacag gctgacagtt atcctcgac ttttggccag 300
gggaccaagc tggagatcaa a 321

<210> 235
<211> 321
<212> DNA
<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V76 G05

<400> 235

gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc	60
atcacttggtc gggcgagtca ggggtattagc agctgggttag cctgggtatca gcagaaacca	120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaaaggg ggtcccatca	180
aggttcagcg gcagtggatc tgggagagat ttcactctca ccatcagcag cctgcagcct	240
gaagattttg 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

gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc	60
atcacttggtc gggcgagtca ggggtattagc agctgggttag cctgggtatca gcagaaacca	120
gggaaagccc ctaagctcct gatctatggt gcatccagtt tgcaaaatgg ggtcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct	240
gaagattttg 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

```
gaggtgcagc tgttggagtc tgggggaggc ttggtacagc ctgggggggtc cctgagactc      60
tcctgtgcag cctctggatt cacctttagc agctatgcca tgagctgggt ccgccaggct      120
ccagggaagg ggctggagtg ggtctcagct attgggtgggt gtggtgttag cacatactgc      180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa tacgctgtat      240
ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gaaattttat      300
atagcagtgg ctggttctca ctttgactac tggggccagg gaaccctggt 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

```
gaggtgcaac tgggtggagtc tgggggagcc ttggtacagc ggggggggtc cctgagactc      60
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
ggctttacta tgggtcgggg 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
gaggtgcaac tgggtggagtc tgggggagcc ttggtacagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggatt caccttcagt agctttggca tgagctgggt ccgccaggct 120
ccagggaagg ggctggagtg ggtttcatac attagtagta gtagttttac catatactac 180
gcagactctg tgaagggccg attcaccatc tccagagaca atgccaagaa ttcgttctat 240
ctgcaaatga acagcctgag agacgaggac acggctgtgt atttctgtgt gagagagggg 300
ggtataacta tggttcgggg agtctcttcc tacggtatgg acgtctgggg ccaagggacc 360
acggtcaccg tctcctca 378

<210> 240
<211> 378
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID 26F2

<400> 240
gaggtgcaac tgggtggagtc tgggggagcc ttggtacagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggatt caccttcagt agctttggca tgagctgggt ccgccaggct 120
ccagggaagg ggctggagtg gatttcatac attagtagta gtagttttac catatactac 180
gcagactctg tgaagggccg attcaccatc tccagagaca atgccaagaa ttcattctat 240
ctgcaaatga acagcctgag agacgaggac acggctgtgt atttctgtgc gagagagggg 300
ggtattacta tggttcgggg agtctcttcc tacggtatgg acgtctgggg ccaagggacc 360
acggtcaccg tctcctca 378

<210> 241
<211> 378
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID 33B12

<400> 241
gaggtgcaac tgggtggagtc tggggggagcc ttggtacagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggatt caccttcagt agctttggca tgagctgggt ccgccaggct 120
ccagggaagg gcctggagtg ggtttcatat attagtaaaa gtagttttac catatactac 180
gcagactctg tgaagggccg attcaccatc tccagagaca atgccaagaa ttcattctat 240
ctgcaaatga acagcctgag agacgaggac acggctgtgt attactgtgc gagagagggg 300
ggctttacta tggttcgggg agtctcttcc tacggtttgg 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
gaggtgcagc tgttggagtc tggggggaggc ttggtacagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggatt cacctttagc agctatgcc a tgagctgggt ccgccaggct 120
ccagggaagg gactggagtg ggtctcagct attagtggta gtgggtggtag 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 aactatgcca tgagctgggt ccgccaggct	120
ccagggaagg ggctggagtg ggtctcagct attagtggta gtgggtggtag cacatactac	180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat	240
ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gaaaggaggg	300
tgggagctat tttactgggg ccagggaacc ctggtcaccg tctcctca	348

<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 ccgggggagtc tctgatgatc	60
tcctgtaagg gttctggata cagctttacc aactactgga tcggctgggt gcgccagatg	120
cccggaag gcctggagtg gatggggatc atctatcctg gagactctga taccagatac	180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac	240
ctgcagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacggaga	300
caggggatct ggggtgatgc tcttgatatc tggggccaag ggacattggc caccgtctct	360
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 ccgggggagtc tctgatgatc	60

tcctgtaagg gttctggata cagctttacc agctactgga tcggctgggt gcgccagatg	120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gagactctga taccagatac	180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac	240
ctgcagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacggaga	300
caggggatct ggggtgatgc tcttgatttc tggggccaag ggacattggt 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	
caggtgcagc tacagcagtg gggcgcagga ctgttgaagc cttcggagac cctgtccctc	60
acctgcgctg tctatgggtg gtccttcagt agttactact ggagctggat ccgccagccc	120
ccaggggaagg ggctggagtg gattggggaa atcaatcata gtggaaacac caactacaac	180
ccgtccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccctg	240
aagctgagct ctgtgaccgc cgcggacacg gctgtgtatt actgtgcgag 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 ccgggggagtc tctgaagatc      60
tcctgtaagg gttctggata cagctttacc agctactgga tcggctgggt gcgccagatg      120
cccgggaaag 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
```

<210> 248

<211> 366

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
24F4

<400> 248

```
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc      60
tcctgtaagg gttctggata cacctttacc agctactgga tcggctgggt gcgccagatg      120
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac      180
agcccgtcct tccaaggcca ggtcaccatc tcagtcgaca agtccagcag caccgcctac      240
ctgcagtgga gcagcctgaa ggccctcggac accgccatat attactgtac gagacaggcc      300
atagcagtga ctggtttggg gggtttcgac ccctggggcc aggggaaccct ggtcaccgtc      360
tcctca                                           366
```

<210> 249

<211> 357

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
16B8

<400> 249

cagggttcagc tgggtgcagtc tggagctgag gtgaagaagc ctggggcctc agtgaaggtc	60
tcctgcaagg cttctgggta cacctttacc aactatggta tcagctgggt gcgacaggcc	120
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 ctctca	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

gagggtgcagc tgggtgcagtc tggagcagaa gtgaaaaagc ccggggagtc tctgaagatc	60
tcctgtaagg gttctggaca cagttttacc aactactgga tcgcctgggt gcgccagatg	120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac	180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac	240
ctgcagtgga gcagcctgaa ggcctcggac accgccgtgt atttctgtgc gagacaaagg	300
acgttttact atgatagtag tggttatfff gactactggg gccagggaac cctggtcacc	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
tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg 120
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agccccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
acgtttttatt atgatagtag tgattatttt gactactggg gccagggaac cctggtcacc 360
gtctcctca 369

<210> 252
<211> 363
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID 5E3

<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 accagggaca cgtccatcag ctcagcctac 240
atggaactga gcaggctgag atctgacgac acggccgtgt attactgtgc gagagatgga 300
ggctacctgg ccctctacgg tacggacgtc tggggccaag ggaccacggt caccgtctcc 360
tca 363

<210> 253
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID 4G10

<400> 253
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagctttccc agctactgga tcgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgccttt 240
ttgaagtgga gtagcctgaa ggcctcggac accgccatgt atttctgtgc gcgacagggt 300
atagaagtga ctggtacggg aggtttggac gtctggggcc aaggggaccac ggtcaccgtc 360
tcctca 366

<210> 254
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V3 A04

<400> 254
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagttttgcg agctactgga tcgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agcccgtcct tccaagatca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagagggagg 300
acgttttatt atgatatgag tgattatatt gactactggg gccagggaac cctggtcacc 360
gtgtcctca 369

<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 ccggggagtc 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
acgtttttatt atgatagtag tgattatfff gactactggg gccagggaaac cctggtcacc 360
gtgtcctca 369

<210> 256
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V27 C04

<400> 256
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60
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
acgtttttatt atgatagtag tgattatfff gactactggg gccagggaaac cctggtcacc 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 ccggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagttttggg agctactgga tcgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga tgttagatac 180
agccccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
acgtttttatt 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
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagttttggt agctactgga tcgcctgggt gcgccagatg 120
cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgactctga tgtgagatac 180
agccccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagaatgagg 300
acgtttttatt atgatagtag tgattatatt gactactggg gccagggaac cctggtcacc 360
gtgtcctca 369

<210> 259
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - HV Antibody ID
V49 E02

<400> 259
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagttttaat agctactgga tcgcctgggt gcgccagatg 120
cccggggaaag gcctggagtg gatgggggacg atctatcctg gtgactctga taccagactg 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagaagtagg 300
acgtttttatt atgatagtag tgattatttt gactactggg gccaggggaa cctgggtcacc 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
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccgggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagttttgag agctactgga tcgcctgggt gcgccagatg 120
cccggggaaag gcctggagtg gatgggggatc atctatcctg gtgactctga taccagatac 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagagggagg 300
acgtttttatt atgatagtag tgattatttt gactactggg gccaggggaa cctgggtcacc 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
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtaagg gttctggata ccattttacc agctactgga tcgcctgggt gcgccagatg 120
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga tgtgagatac 180
agccccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
acgtttttatt atgatagtag tgattatagt gactactggg gccaggggaac 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
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagtttttgt agctactgga tcgcctgggt gcgccagatg 120
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agccccggggt tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagagggagg 300
acgtttttatt atgatagtag tgattatatt gactactggg gccaggggaac 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
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagttttggg agctactgga tcgcctgggt gcgccagatg 120
cccgaggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agccccggagt tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
acgtttttatt atgatagtag tgattatagt gactactggg gccaggggaac cctggtcacc 360
gtgtcctca 369

<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
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtaagg gttctggata cgggtttacc agctactgga tcgcctgggt gcgccagatg 120
cccgaggaaag gcctggagtg gatggggatc atctatcctg gtgacagtga taccagatac 180
agccccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
acgtttttatt atgatagtag tgattattcg gactactggg gccaggggaac cctggtcacc 360
gtgtcctca 369

<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
20

<210> 266

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Secretory peptide #2

<400> 266

Met Ala Trp Ala Leu Leu Leu Leu Thr Leu Leu Thr Gln Gly Thr Gly
1 5 10 15

Ser Trp Ala

<210> 267

<400> 267

000

<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 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

<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

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 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>
<223> CDRH3 Consensus for 6E7 reduced Affinity variants

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> X is T or G

<220>
<221> MISC_FEATURE
<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
1 5 10

<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

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 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 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

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

<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

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
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
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

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 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 tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc gggcgagtca gggatttagc agctggtag cctggatatca gcagaaacca	120
gggaaagccc ctaagctcct gatctattct gcatccagtt tgcaaaatgg 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

gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc gggcgagtca gggatttagc agctggtag cctggatatca 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

<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
gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60
atcacttggtg cggcgagtca ggggtattagc agctgggttag cctgggtatca gcagaaacca 120
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> 316
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V70 F11

<400> 316
gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60
atcacttggtc gggcgagtca ggggtattagc agctgggttag cctgggtatca gcagaaacca 120
gggaaagccc ctaagctcct gatctatgct gcaggagtt tgcaaaatgg ggtcccatca 180
aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240
gaagattttg caacttactt ttgtcaacag gctgacagtt tccctcgac ttttggccag 300
gggaccaagc tggagatcaa a 321

<210> 317
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-TREM2 Antibody Variable Region Nucleic Acid - LV Antibody ID
V83

<400> 317
gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60

atcacttgtc gggcgagtca gggatttagc agctgggtag cctgggtatca gcagaaacca	120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaaatgg ggtcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct	240
gaagattttg caacttactt ttgtcaacag gctgtgagtt tccctcgcac ttttggccag	300
gggaccaagc tggagatcaa a	321

<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 tgaccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc gggcgagtca gggatttagc agatgggtag cctgggtatca gcagaaacca	120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaaatgg ggtcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct	240
gaagattttg caacttactt ttgtcaacag gctgacagtt tccctcgcac 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
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac	180

agcccgctcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac	240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg	300
gggtttttatt atgatatagtag tgattatttt gactactggg gccagggaac cctgggcacc	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 ccggggagtc tctgaagatc	60
tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg	120
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac	180
agcccgctcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac	240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg	300
acgtttttatt atgatatagtag tgattatttt gactactggg gccagggaac cctgggcacc	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 ccggggagtc tctgaagatc	60
tcctgtaagg gttctggatc gagttttacc agctactgga tcgcctgggt gcgccagatg	120

cccgaggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac	180
agcccgctcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac	240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg	300
acgttttatt atgatagtag tgattatattt 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 ccggggagtc tctgaagatc	60
tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg	120
cccgaggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac	180
agcccgctcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac	240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg	300
acgttttatg gggatagtag tgattatattt 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 ccggggagtc tctgaagatc	60
tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg	120

cccgaggaaag gcctggagtg gatggggatc atctatccta gtgactctga taccagatac	180
agcccgctcct 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	
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc	60
tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg	120
cccgaggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac	180
agcccgctcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac	240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg	300
acgttttaggt atgatagtag tgattatfff gactactggg gccagggaac cctggtcacc	360
gtgtcctca	369

<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	
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc	60
tcctgtaagg gttctggata cagttttacc agcgagtgga tcgcctgggt gcgccagatg	120

```

cccggaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agcccgctct tccaaggcca gggtaccatc tcagccgaca agtccatcag caccgcctac 240
ctacagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gagacaaagg 300
acgttttatt atgatagtag tgattatttt gactactggg gccaggggaac cctggtcacc 360
gtgtcctca 369

```

```

<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
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 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

<220>

<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

<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 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
145 150 155 160

Gly Gly 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 Ser Leu Gly Thr Gln Thr Tyr Ile Cys
210 215 220

Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
225 230 235 240

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
245 250 255

Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
260 265 270

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
275 280 285

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
290 295 300

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Cys Glu Glu Gln Tyr
305 310 315 320

Gly Ser Thr Tyr Arg Cys Val Ser Val Leu Thr Val Leu His Gln Asp

325

330

335

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 340 345 350

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	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
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
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

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 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
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
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
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> 340
<211> 473
<212> PRT
<213> Artificial Sequence

<220>
<223> AA sequence HC SST202443

<400> 340

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Trp
1 5 10 15

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

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
225 230 235 240

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
100 105 110

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

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
210 215 220

Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys Thr
225 230 235 240

Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Glu

245

250

255

Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
 260 265 270

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
 275 280 285

Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly
 290 295 300

Val Glu Val His Asn Ala Lys Thr Lys Pro Cys Glu Glu Gln Tyr Gly
 305 310 315 320

Ser Thr Tyr Arg Cys Val Ser Val Leu Thr Val Leu His Gln Asp Trp
 325 330 335

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro
 340 345 350

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
 355 360 365

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
 370 375 380

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
 385 390 395 400

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
 405 410 415

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 tgacccagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc 60
 atcaactgca agtccagcca gagtgtttta tacagctcca acaataagca cttcttagct 120
 tggtagcagc agaaaccagg acagcctcct aagctgctca ttactgggc atctaccgg 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
 gaggtgcagc tggttgagtc tgggggaggc ttggtacagc ctgggggggtc cctgagactc 60
 tcctgtgcag cctctggatt cacctttagc agctatgcc aagagctgggt ccgccaggct 120
 ccagggaagg gactggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180
 gcagaatccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gaaggcgtat 300

acacctatgg cattctttga ctactggggc cagggaaccc tggtcaccgt ctcctca 357

<210> 345

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> LC variable region sequence SST29857

<400> 345

gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 60

atcacttgtc gggcgagtca gggatttagc agctggtag cctggatatca gcagaaacca 120

gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180

aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag cctgcagcct 240

gaagattttg caacttactt ttgtcaacag gctgacgctt tccctcgac ttttggccag 300

gggaccaagc tggagatcaa a 321

<210> 346

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> HC variable region sequence SST29857

<400> 346

gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60

tcctgtaagg gttctggata cagttttacc agctactgga tcgcctgggt gcgccagatg 120

cccgggaaaag gcctggagtg gatggggatc atctatcctg gtgacgctga tgccagatac 180

agccccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240

ctacagtgga gcagcctgaa ggcctcggac accgcatgt atttctgtgc gagacaaagg 300

acgttttatt atgatatag tgattatctt gactactggg gccaggaac cctggtcacc 360

gtgtcctca 369

<210> 347

<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> LC variable region sequence SST202443

<400> 347
gaaatagtga tgacgcagtc tccagccacc ctgtctgtgt ctccagggga aagagccacc 60
ctctcctgca gggccagtca gagtgttagc agcaacttag cctggttcca gcagaaacct 120
ggccaggctc ccaggctcct catctatggg gcttccacca gggccactgg tattccagcc 180
aggttcagtg gcagtgggtc tgggacagag ttcactctca ccatcagcag cctgcagcct 240
gaagattttg cagtttatta ctgtctgcag gataataatt tccctccac tttcggccaa 300
gggaccaaag tggatatcaa a 321

<210> 348
<211> 363
<212> DNA
<213> Artificial Sequence

<220>
<223> HC variable region sequence SST202443

<400> 348
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagctttacc agctactgga tcggctgggt gcgccagatg 120
cccgggaaag gcctggagtg gatggggatc atctatcctg gagatgctga tgccagatac 180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctgcagtgga gcagcctgaa ggcctcggac accgccatgt atttctgtgc gaggcggaga 300
caggggatct tcggtgatgc tcttgatttc tggggccaag ggacattggg caccgtgtct 360
tca 363

<210> 349
<211> 321
<212> DNA
<213> Artificial Sequence

<220>

<223> LC variable region sequence SST29825

<400> 349

```
gacatccaga tgacccagtc tccatcctca ctgtctgcat ctgtaggaga cagagtcacc      60
atcacttgtc gggcgagtca gggcattagc aattatttag cctgggtatca gcagaaacca      120
gggaaagccc ctaaatccct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca      180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct      240
gaagattttg caacttatta ctgccaacag tatagtactt acccattcac tttcggccaa      300
gggaccaaag tggatatcaa a                                              321
```

<210> 350

<211> 363

<212> DNA

<213> Artificial Sequence

<220>

<223> HC variable region sequence SST29825

<400> 350

```
caggtgcagc tgggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaagggtg      60
tcctgcaagg cttctggata caccttcacc ggctactata tccactgggt gcgacaggcc      120
cctggacaag ggcttgagtg gatgggatgg atcaaccctt acagtgggtg cacaacctct      180
gcacagaagt ttcagggcag ggtcaccatg accaggggaca cgtccaccag ctcagcctac      240
atggaactga gcaggctgag atctgacgac acggccgtgt attactgtgc gagagatgca      300
ggctacctgg ccctctacgg tacggacgtc tggggccaag ggaccttggt caccgtgtcc      360
tca                                                                    363
```

<210> 351

<211> 726

<212> DNA

<213> Artificial Sequence

<220>

<223> NA sequence LC SST28347

<400> 351

atggacatga ggggtgcccgc tcagctcctg gggctcctgc tgctgtggct gagaggtgcg	60
cgctgtgaca tcgtgatgac ccagtctcca gactccctgg ctgtgtctct gggcgagagg	120
gccaccatca actgcaagtc cagccagagt gttttataca gctccaacaa taagcacttc	180
ttagcttggg accagcagaa accaggacag cctcctaagc tgctcattta ctgggcatct	240
acccgggagt ccgggggtccc tgaccgattc agtggcagcg ggtctgggac agatttcact	300
ctcaccatca gcagcctgca ggctgaagat gtggcagttt attactgtca gcaatattat	360
agtactccgc tcactttcgg cggagggacc aagggtggaga tcaaacgaac ggtggctgca	420
ccatctgtct tcactttccc gccatctgat gagcagttga aatctggaac tgcctctgtt	480
gtgtgcctgc tgaataactt ctatcccaga gaggccaaag tacagtggaa ggtggataac	540
gccctccaat cgggtaactc ccaggagagt gtcacagagc aggacagcaa ggacagcacc	600
tacagcctca gcagcacct gacgctgagc aaagcagact acgagaaaca caaagtctac	660
gcctgcgaag tcacccatca gggcctgagc tcgcccgtca caaagagctt caacagggga	720
gagtgt	726

<210> 352
 <211> 1413
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NA sequence HC SST28347

<400> 352	
atggacatga ggggtgcccgc tcagctcctg gggctcctgc tgctgtggct gagaggtgcg	60
cgctgtgagg tgcagctgtt ggagtctggg ggaggcttgg tacagcctgg ggggtccctg	120
agactctcct gtgcagcctc tggattcacc tttagcagct atgccatgag ctgggtccgc	180
caggctccag ggaagggact ggagtgggtc tcagctatta gtggtagtgg tggtagcaca	240
tactacgcag aatccgtgaa gggccggttc accatctcca gagacaattc caagaacacg	300
ctgtatctgc aaatgaacag cctgagagcc gaggacacgg ccgtatatatta ctgtgcgaag	360
gcgtatacac ctatggcatt ctttgactac tggggccagg gaaccctggg caccgtctcc	420

tcagcctcca ccaagggccc atcgggtcttc cccctggcac cctcctccaa gagcacctct	480
gggggcacag cggccctggg ctgcctgggc aaggactact tccccgaacc ggtgacggtg	540
tcgtggaact caggcgccct gaccagcggc gtgcacacct tcccggctgt cctacagtcc	600
tcaggactct actccctcag cagcgtgggtg accgtgccct ccagcagctt gggcacccag	660
acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gaaagttgag	720
cccaaattctt gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg	780
ggaccgtcag tcttcctctt cccccaaaa cccaaggaca ccctcatgat ctcccgacc	840
cctgagggtca catgcgtggg ggtggacgtg agccacgaag accctgaggt caagttcaac	900
tggtacgtgg acggcgtgga ggtgcataat gccaaagacaa agccgtgcga ggagcagtac	960
ggcagcacgt accgttgctg cagcgtcctc accgtcctgc accaggactg gctgaatggc	1020
aaggagtaca agtgcaaggt gtccaacaaa gccctcccag ccccatcga gaaaaccatc	1080
tccaaagcca aagggcagcc ccgagaacca caggtgtaca ccctgcccc atcccgggag	1140
gagatgacca agaaccaggt cagcctgacc tgcctgggtca aaggcttcta tcccagcgac	1200
atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cagcctccc	1260
gtgctggact ccgacggctc cttcttcctc tatagcaagc tcaccgtgga caagagcagg	1320
tggcagcagg ggaacgtctt ctcatgctcc gtgatgcatg aggctctgca caaccactac	1380
acgcagaaga gcctctccct gtctccgggc aaa	1413

<210> 353
 <211> 1404
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NA sequence HC SST204812

<400> 353	
atggacatga ggggtgcccgc tcagctcctg gggctcctgc tgctgtggct gagaggtgcg	60
cgctgtgagg tgcagctgtt ggagtctggg ggaggcttgg tacagcctgg ggggtccctg	120
agactctcct gtgcagcctc tggattcacc tttagcagct atgccatgag ctgggtccgc	180

caggctccag ggaagggact ggagtgggtg tcagctatta gtggtagtgg tggtagcaca	240
tactacgcag aatccgtgaa gggccggttc accatctcca gagacaattc caagaacacg	300
ctgtatctgc aaatgaacag cctgagagcc gaggacacgg ccgtatatta ctgtgcgaag	360
gcgtatacac ctatggcatt ctttgactac tggggccagg gaaccctggc caccgtgtcc	420
tcagcctcca ccaagggccc atcggctctc cccctggcgc ccagctccag gagcacctcc	480
gagagcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacggcg	540
tcgtggaact caggcgctct gaccagcggc gtgcacacct tcccagctgt cctacagtcc	600
tcaggactct actccctcag cagcgtggcg accgtgccct ccagcaactt cggcaccacg	660
acctacacct gcaacgtaga tcacaagccc agcaacacca aggtggacaa gacagttgag	720
cgcaaatgtt gtgtcgagtg cccaccgtgc ccagcacctg aactcctggg gggaccgtca	780
gtcttcctct tcccccaaa acccaaggac accctcatga tctcccggac ccctgaggtc	840
acatgcgtgg tgggtggacgt gagccacgaa gaccctgagg tcaagttcaa ctggtacgtg	900
gacggcgtgg aggtgcataa tgccaagaca aagccgtgcg aggagcagta cggcagcacg	960
taccgttgcg tcagcgtcct caccgtcctg caccaggact ggctgaatgg caaggagtac	1020
aagtgcagg tgtccaacaa agccctccca gccccatcg agaaaaccat ctccaaagcc	1080
aaagggcagc cccgagaacc acaggtgtac accctgcccc catcccggga ggagatgacc	1140
aagaaccagg tcagcctgac ctgcctggtc aaaggcttct atcccagcga catcgccgtg	1200
gagtgggaga gcaatgggca gccggagaac aactacaaga ccacgcctcc cgtgctggac	1260
tccgacggct ctttcttct ctatagcaag ctcaccgtgg acaagagcag gtggcagcag	1320
gggaacgtct tctcatgctc cgtgatgcat gaggctctgc acaaccacta cacgcagaag	1380
agcctctccc tgtctccggg caaa	1404

<210> 354
 <211> 708
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> NA sequence LC SST29857

<400> 354
atggacatga ggggtgcccgc tcagctcctg gggctcctgc tgctgtggct gagaggtgcg 60
cgctgtgaca tccagatgac ccagtcctcca tcttccgtgt ctgcatctgt aggagacaga 120
gtcaccatca cttgtcgggc gagtcagggt attagcagct ggtagcctg gtatcagcag 180
aaaccaggga aagcccctaa gtcctgatc tatgctgcat ccagtttgca aagtggggtc 240
ccatcaaggt tcagcggcag tggatctggg acagatttca ctctcaccat cagcagcctg 300
cagcctgaag attttgcaac ttacttttgt caacaggctg acgctttccc tcgcactttt 360
ggccagggga ccaagctgga gatcaaacga acgggtggctg caccatctgt cttcatcttc 420
ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac 480
ttctatccca gagaggccaa agtacagtgg aagggtggata acgccctcca atcgggtaac 540
tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc 600
ctgacgctga gcaaagcaga ctacgagaaa cacaaagtct acgcctgcga agtcacccat 660
cagggcctga gctcgcccggt cacaaagagc ttcaacaggg gagagtgt 708

<210> 355
<211> 1416
<212> DNA
<213> Artificial Sequence

<220>
<223> NA sequence HC SST29857

<400> 355
atggacatga ggggtgcccgc tcagctcctg gggctcctgc tgctgtggct gagaggtgcg 60
cgctgtgagg tgcagctggg gcagtcctgga gcagaggtga aaaagcccgg ggagtctctg 120
aagatctcct gtaagggttc tggatacagt tttaccagct actggatcgc ctgggtgcgc 180
cagatgcccg ggaaaggcct ggagtggatg gggatcatct atcctgggtga cgctgatgcc 240
agatacagcc cgtccttcca aggccagggt accatctcag ccgacaagtc catcagcacc 300
gcctacctac agtggagcag cctgaaggcc tcggacaccg ccatgtattt ctgtgcgaga 360
caaaggacgt tttattatga tagtagtgat tattttgact actggggcca gggaaccctg 420

gtcaccgtgt cctcagcctc caccaagggc ccatcggtct tccccctggc gcccagctcc	480
aggagcacct ccgagagcac agcggccctg ggctgcctgg tcaaggacta cttccccgaa	540
ccggtgacgg tgtcgtggaa ctcaggcgct ctgaccagcg gcgtgcacac cttcccagct	600
gtcctacagt cctcaggact ctactccctc agcagcgtgg tgaccgtgcc ctccagcaac	660
ttcggcacc cagacctacac ctgcaacgta gatcacaagc ccagcaaac caaggtggac	720
aagacagttg agcgcaaatg ttgtgtcgag tgcccaccgt gcccagcacc tgaactcctg	780
gggggaccgt cagtcttcct cttcccccca aaacccaagg acaccctcat gatctcccgg	840
acccctgagg tcacatgcgt ggtgggtggac gtgagccacg aagaccctga ggtcaagttc	900
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccgtg cgaggagcag	960
tacggcagca cgtaccgttg cgtcagcgtc ctcaccgtcc tgcaccagga ctggctgaat	1020
ggcaaggagt acaagtgcaa ggtgtccaac aaagccctcc cagcccccat cgagaaaacc	1080
atctccaaag ccaaagggca gccccgagaa ccacaggtgt acaccctgcc cccatcccgg	1140
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc	1200
gacatcgccg tggagtggga gagcaatggg cagccggaga acaactacaa gaccacgcct	1260
cccgtgctgg actccgacgg ctctttcttc ctctatagca agctcaccgt ggacaagagc	1320
aggtggcagc aggggaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac	1380
tacacgcaga agagcctctc cctgtctccg ggcaaa	1416

<210> 356
 <211> 708
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NA sequence LC SST202443

<400> 356	
atggacatga ggggtgcccgc tcagctcctg gggctcctgc tgctgtggct gagaggtgcg	60
cgctgtgaaa tagtgatgac gcagtctcca gccaccctgt ctgtgtctcc aggggaaaga	120
gccaccctct cctgcagggc cagtcagagt gttagcagca acttagcctg gttccagcag	180

aaacctggcc aggctcccag gctcctcatc tatgggtgctt ccaccagggc cactgggtatt	240
ccagccaggt tcagtggcag tgggtctggg acagagttca ctctcaccat cagcagcctg	300
cagcctgaag attttgcagt ttattactgt ctgcaggata ataatttccc tcccactttc	360
ggccaaggga ccaaagtgga tatcaaacga acgggtggctg caccatctgt cttcatcttc	420
ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac	480
ttctatccca gagaggccaa agtacagtgg aagggtggata acgccctcca atcgggtaac	540
tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc	600
ctgacgctga gcaaagcaga ctacgagaaa cacaaagtct acgcctgcga agtcacccat	660
cagggcctga gctcgcccgt cacaaagagc ttcaacaggg gagagtgt	708

<210> 357
 <211> 1419
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NA sequence HC SST202443

<400> 357	
atggacatga ggggtgcccgc tcagctcctg gggctcctgc tgctgtggct gagagggtgcg	60
cgctgtgagg tgcagctggt gcagtctgga gcagagggtga aaaagcccgg ggagtctctg	120
aagatctcct gtaagggttc tggatacagc ttaccagct actggatcgg ctgggtgcgc	180
cagatgcccg ggaaaggcct ggagtggatg gggatcatct atcctggaga tgctgatgcc	240
agatacagcc cgtccttcca aggccaggtc accatctcag ccgacaagtc catcagcacc	300
gcctacctgc agtggagcag cctgaaggcc tcggacaccg ccatgtatatt ctgtgcgagg	360
cggagacagg ggatcttcgg tgatgctctt gatttctggg gccaaggac attggtcacc	420
gtgtcttcag cctccaccaa gggcccatcg gtcttcccc tggcaccctc ctccaagagc	480
acctctgggg gcacagcggc cctgggctgc ctggtaagg actacttccc cgaaccggtg	540
acgggtgtcgt ggaactcagg cgccctgacc agcggcgtgc acaccttccc ggctgtccta	600
cagtcctcag gactctactc cctcagcagc gtggtgaccg tgccctccag cagcttgggc	660

accagacct acatctgcaa cgtgaatcac aagcccagca acaccaaggt ggacaagaaa	720
gttgagccca aatcttgtga caaaactcac acatgcccac cgtgcccagc acctgaactc	780
ctgggggggac cgtcagtcctt cctcttcccc ccaaaaccca aggacaccct catgatctcc	840
cggacccctg aggtcacatg cgtggtggtg gacgtgagcc acgaagaccc tgagggtcaag	900
ttcaactggt acgtggacgg cgtggagggtg cataatgcca agacaaagcc gtgcgaggag	960
cagtacggca gcacgtaccg ttgcgtcagc gtcctcaccg tcctgcacca ggactggctg	1020
aatggcaagg agtacaagtg caagggtgtcc aacaaagccc tcccagcccc catcgagaaa	1080
accatctcca aagccaaagg gcagccccga gaaccacagg tgtacaccct gccccatcc	1140
cgggaggaga tgaccaagaa ccaggtcagc ctgacctgcc tgggtcaaagg cttctatccc	1200
agcgacatcg ccgtggagtg ggagagcaat gggcagccgg agaacaacta caagaccacg	1260
cctcccgtgc tggactccga cggctccttc ttcctctata gcaagctcac cgtggacaag	1320
agcagggtggc agcaggggaa cgtcttctca tgctccgtga tgcatgaggc tctgcacaac	1380
cactacacgc agaagagcct ctccctgtct ccgggcaaaa	1419

<210> 358
 <211> 708
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NA sequence LC SST29825

<400> 358	
atggacatga ggggtgcccgc tcagctcctg gggctcctgc tgctgtggct gagaggtgcg	60
cgctgtgaca tccagatgac ccagtctcca tcctcactgt ctgcatctgt aggagacaga	120
gtcaccatca cttgtcgggc gagtcagggc attagcaatt atttagcctg gtatcagcag	180
aaaccaggga aagcccctaa atccctgatc tatgctgcat ccagtttgca aagtggggtc	240
ccatcaagggt tcagcggcag tggatctggg acagatttca ctctcaccat cagcagcctg	300
cagcctgaag attttgcaac ttattactgc caacagtata gtacttacct attcactttc	360
ggccaaggga ccaaagtgga tatcaaacga acggtggctg caccatctgt cttcatcttc	420

ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac	480
ttctatccca gagaggccaa agtacagtgg aagggtggata acgccctcca atcgggtaac	540
tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc	600
ctgacgctga gcaaagcaga ctacgagaaa cacaaagtct acgcctgcga agtcacccat	660
cagggcctga gctcgcccggt cacaaagagc ttcaacaggg gagagtgt	708

<210> 359
 <211> 1410
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NA sequence HC SST29825

<400> 359	
atggacatga ggggtgcccgc tcagctcctg gggctcctgc tgctgtggct gagaggtgcg	60
cgctgtcagg tgcagctggg gcagtcctggg gctgaggtga agaagcctgg ggcctcagtg	120
aagggtgtcct gcaaggcttc tggatacacc ttcaccggct actatatcca ctgggtgcga	180
caggccccctg gacaagggtc tgagtggatg ggatggatca acccttacag tgggtggcaca	240
acctctgcac agaagtttca gggcagggtc accatgacca gggacacgtc caccagctca	300
gcctacatgg aactgagcag gctgagatct gacgacacgg ccgtgtatta ctgtgcgaga	360
gatgcaggct acctggccct ctacgggtacg gacgtctggg gccaaaggac cttggtcacc	420
gtgtcctcag cctccaccaa gggcccatcg gtcttcccc tggcgcccag ctccaggagc	480
acctccgaga gcacagcggc cctgggctgc ctgggtcaagg actacttccc cgaaccgggtg	540
acgggtgtcgt ggaactcagg cgctctgacc agcggcgtgc acaccttccc agctgtccta	600
cagtcctcag gactctactc cctcagcagc gtgggtgaccg tgccctccag caacttcggc	660
accagacct acacctgcaa cgtagatcac aagcccagca acaccaaggt ggacaagaca	720
gttgagcgca aatgttgtgt cgagtggcca ccgtgcccag cacctgaact cctgggggga	780
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct	840
gaggtcacat gcgtgggtggg ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg	900

<213> Artificial Sequence

<220>

<223> Peptides from epitope mapping experiments

<400> 362

Gly Asp Leu Trp Phe Pro Gly Glu Ser Glu
1 5 10

<210> 363

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptides from epitope mapping experiments

<400> 363

His Arg Asp Ala Gly Asp Leu Trp Phe Pro Gly Glu Ser Glu
1 5 10

<210> 364

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptides from epitope mapping experiments

<400> 364

Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Phe Pro Gly Glu Ser
1 5 10 15

Glu

<210> 365

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptides from epitope mapping experiments

<400> 365

Pro Leu Asp His Arg Asp Ala Gly Asp Ala Trp Phe Pro Gly Glu Ser
1 5 10 15

Glu

<210> 366

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptides from epitope mapping experiments

<400> 366

Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Ala Pro Gly Glu Ser
1 5 10 15

Glu

<210> 367

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptides from epitope mapping experiments

<400> 367

Gly Asp Leu Trp Phe Pro
1 5