

311SG439-seq1-000001
SEQUENCE LISTING

<110> Agency for Science, Technology and Research
<120> Anti-TIM-3 Antibodies
<130> RIC/FP7157985
<150> GB 1419094.6
<151> 2014-10-27
<160> 61
<170> PatentIn version 3.3
<210> 1
<211> 110
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anti-TIM-3 antibody clone 1B9
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Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
1 5 10 15

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

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

Ile Tyr Gly Asn Asn Trp Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Glu Ala Trp Asp Tyr Tyr Val
85 90 95

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Ala Ala Gly Tyr Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

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 anti-TIM-3 antibody clone 1H9

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
 20 25 30

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

Ile Tyr Gly Asn Asn Trp Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
 65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Asp Ser Trp Asp Ser Ala Asp
 85 90 95

Ala Ser Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

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<400> 3

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

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

Ile Tyr Gly Asn Asn Trp Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Asp Ser Trp Asp Tyr Asp Tyr
85 90 95

Ala Ala Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 4

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<400> 4

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln

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

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      anti-TIM-3 antibody clone 2F4

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

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Ile Tyr Gly Asn Asn Trp Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Glu Ser Trp Asp Tyr Asp Tyr
85 90 95

Ala Ser Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 6
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anti-TIM-3 antibody clone 2G6

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

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

Ile Tyr Gly Asn Asn Trp Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

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Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Asp Ser Trp Asp Ser Ser Asp
85 90 95

Ser Ser Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 7
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anti-TIM-3 antibody clone 1D9

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

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

Ile Tyr Gly Asn Asn Trp Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Glu Ala Trp Asp Ser Ala Tyr
85 90 95

Ala Ala Gly Ser Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

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 1 5 10 15

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
 20 25 30

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

Ile Tyr Gly Asn Asn Trp Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
 65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Asp Ser Trp Asp Ala Ala Leu
 85 90 95

Ser Ala Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 9
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 anti-TIM-3 antibody clone 2C8

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<400> 9

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

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

Ile Tyr Gly Asn Asn Trp Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Glu Ser Trp Asp Ala Ala Ala
85 90 95

Ala Ala Gly Tyr Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 10

<211> 13

<212> PRT

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<223> Synthetic sequence: LC-CDR1

<400> 10

Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser
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<210> 11

<211> 7

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<223> Synthetic sequence: LC-CDR2

<400> 11

Gly Asn Asn Trp Arg Pro Ser
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<210> 12

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<212> PRT

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<220>

<223> Synthetic sequence: LC-CDR3

<400> 12

Glu Ala Trp Asp Tyr Tyr Val Ala Ala Gly Tyr
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<210> 13

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic sequence: LC-CDR3

<400> 13

Asp Ser Trp Asp Ser Ala Asp Ala Ser Gly Val
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<210> 14

<211> 11

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<223> Synthetic sequence: LC-CDR3

<400> 14

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Asp Ser Trp Asp Tyr Asp Tyr Ala Ala Gly Val
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<400> 15

Asp Ser Trp Asp Ser Tyr Leu Ala Ala Gly Val
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<210> 16
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<400> 16

Glu Ser Trp Asp Tyr Asp Tyr Ala Ser Gly Val
1 5 10

<210> 17
<211> 11
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<400> 17

Asp Ser Trp Asp Ser Ser Asp Ser Ser Gly Val
1 5 10

<210> 18
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<212> PRT
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<400> 18

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

<210> 19
<211> 11
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<220>
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<400> 19

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

<210> 20
<211> 11
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<220>
<223> Synthetic sequence: LC-CDR3

<400> 20

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

<210> 21
<211> 116
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<213> Artificial sequence

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anti-TIM-3 antibody clone 1B9

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<400> 21

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 Gly Tyr Val Ala Gly Ser Asp Ala Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 22

<211> 116

<212> PRT

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<223> Synthetic sequence: Heavy chain variable domain sequence for
anti-TIM-3 antibody clone 1H9

<400> 22

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

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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 Gly Tyr Val Ala Gly Phe Asp Asp Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 23

<211> 116

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic sequence: Heavy chain variable domain sequence for
anti-TIM-3 antibody clone 1H10

<400> 23

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

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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 Gly Tyr Val Ala Gly Phe Asp Ser Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 24

<211> 116

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic sequence: Heavy chain variable domain sequence for anti-TIM-3 antibody clone 2C7

<400> 24

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

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

Thr Val Ser Ser
115

<210> 25

<211> 116

<212> PRT

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<220>

<223> Synthetic sequence: Heavy chain variable domain sequence for
anti-TIM-3 antibody clone 2F4

<400> 25

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

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

Thr Val Ser Ser
115

<210>	26
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<223> Synthetic sequence: Heavy chain variable domain sequence for anti-TIM-3 antibody clone 2G6

<400> 26

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

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

Thr Val Ser Ser
 115

<210> 27
 <211> 116
 <212> PRT
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<220>
 <223> Synthetic sequence: Heavy chain variable domain sequence for
 anti-TIM-3 antibody clone 1D9

<400> 27

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

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Thr Val Ser Ser
115

<210> 28
<211> 116
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic sequence: Heavy chain variable domain sequence for
anti-TIM-3 antibody clone 1F4

<400> 28

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

Thr Val Ser Ser
115

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<210> 29
 <211> 116
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic sequence: Heavy chain variable domain sequence for
 anti-TIM-3 antibody clone 2C8

<400> 29

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 Gly Tyr Val Ala Gly Ser Asp Ala Trp Gly Gln Gly Thr Leu Val
 100 105 110

Thr Val Ser Ser
 115

<210> 30
 <211> 10
 <212> PRT
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<220>

<223> Synthetic sequence: HC-CDR1

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Gly	Gly	Ser	Phe	Ser	Gly	Tyr	Tyr	Trp	Ser
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<210> 31

<211> 16

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<213> Artificial sequence

<220>

<223> Synthetic sequence: HC-CDR2

<400> 31

Glu	Ile	Asn	His	Ser	Gly	Ser	Thr	Asn	Tyr	Asn	Pro	Ser	Leu	Lys	Ser
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<210> 32

<211> 8

<212> PRT

<213> Artificial sequence

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<223> Synthetic sequence: HC-CDR3

<400> 32

Gly	Tyr	Val	Ala	Gly	Ser	Asp	Ala
1				5			

<210> 33

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic sequence: HC-CDR3

<400> 33

Gly	Tyr	Val	Ala	Gly	Phe	Asp	Asp
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1 5

<210> 34
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic sequence: HC-CDR3

<400> 34

Gly Tyr Val Ala Gly Phe Asp Ser
1 5

<210> 35
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic sequence: HC-CDR3

<400> 35

Gly Tyr Val Ala Gly Tyr Asp Tyr
1 5

<210> 36
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic sequence: HC-CDR3

<400> 36

Gly Tyr Val Ala Gly Ser Asp Ala
1 5

<210> 37
<211> 8
<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic sequence: HC-CDR3

<400> 37

Gly Tyr Val Ala Gly Phe Asp Ser
1 5

<210> 38

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic sequence: HC-CDR3

<400> 38

Gly Tyr Tyr Ala Gly Asp Asp Tyr
1 5

<210> 39

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic sequence: HC-CDR3

<400> 39

Gly Tyr Val Ala Gly Tyr Asp Tyr
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<210> 40

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic sequence: HC-CDR3

<400> 40

Gly Tyr Val Ala Gly Ser Asp Ala
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<210> 41
<211> 11
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<220>
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<223> Xaa = Glu or Asp

<220>
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<222> (2)..(2)
<223> Xaa = Ala or Ser

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa = Tyr, Ser or Ala

<220>
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<222> (6)..(6)
<223> Xaa = Tyr, Ala, Asp or Ser

<220>
<221> VARIANT
<222> (7)..(7)
<223> Xaa = Val, Asp, Tyr, Leu or Ala

<220>
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<223> Xaa = Ala or Ser

<220>
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<223> Xaa = Ala or Ser

<220>
 <221> VARIANT
 <222> (11)..(11)
 <223> Xaa = Tyr, Val or Ser

<400> 41

Xaa	Xaa	Trp	Asp	Xaa	Xaa	Xaa	Xaa	Xaa	Gly	Xaa
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<210> 42
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 <213> Artificial sequence

<220>
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<220>
 <221> VARIANT
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 <223> Xaa = Val or Tyr

<220>
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 <222> (6)..(6)
 <223> Xaa = Ser, Phe, Tyr or Asp

<220>
 <221> VARIANT
 <222> (8)..(8)
 <223> Xaa = Ala, Asp, Ser or Tyr

<400> 42

Gly	Tyr	Xaa	Ala	Gly	Xaa	Asp	Xaa
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<210> 43
 <211> 330
 <212> DNA
 <213> Artificial sequence

<220>

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<223> Synthetic sequence: Nucleotide sequence of light chain variable domain sequence for anti-TIM-3 antibody clone 1B9

<400> 43

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ccaggaacag cccccaaact cctcatTTat ggcaataatt ggcgaccctc agggattcct      180
gaccgcttct ctggctccaa gtctggcacc tcagccaccc tgggcatcac cggacttcag      240
actggggacg aggccgatta ttactgcgaa gcttgggatt attatgttgc tgctgggtat      300
ttcggcggag ggaccaagct gaccgtccta      330
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<210> 44

<211> 330

<212> DNA

<213> Artificial sequence

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<223> Synthetic sequence: Nucleotide sequence of light chain variable domain sequence for anti-TIM-3 antibody clone 1H9

<400> 44

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ccaggaacag cccccaaact cctcatTTat ggcaataatt ggcgaccctc agggattcct      180
gaccgcttct ctggctccaa gtctggcacc tcagccaccc tgggcatcac cggacttcag      240
actggggacg aggccgatta ttactgcgat tcttgggatt ctgctgatgc ttctggggtt      300
ttcggcggag ggaccaagct gaccgtccta      330
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<210> 45

<211> 330

<212> DNA

<213> Artificial sequence

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<223> Synthetic sequence: Nucleotide sequence of light chain variable domain sequence for anti-TIM-3 antibody clone 1H10

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<400> 45
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tcctgctctg gaagcagctc caacattggg aataattatg ttcctggta ccagcagctc      120
ccaggaacag cccccaaact cctcatTTat ggcaataatt ggcgaccctc agggattcct      180
gaccgcttct ctggctccaa gtctggcacc tcagccaccc tgggcatcac cggacttcag      240
actggggacg aggccgatta ttactgcgat tcttgggatt atgattatgc tgctgggggtt      300
ttcggcggag ggaccaagct gaccgtccta                                     330

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<210> 46
<211> 330
<212> DNA
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<220>
<223> Synthetic sequence: Nucleotide sequence of light chain variable
      domain sequence for anti-TIM-3 antibody clone 2C7

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<400> 46
cagtctgtgt tgacgcagcc gccctcagtg tctgcggccc caggacagaa agtcaccatc      60
tcctgctctg gaagcagctc caacattggg aataattatg ttcctggta ccagcagctc      120
ccaggaacag cccccaaact cctcatTTat ggcaataatt ggcgaccctc agggattcct      180
gaccgcttct ctggctccaa gtctggcacc tcagccaccc tgggcatcac cggacttcag      240
actggggacg aggccgatta ttactgcgat tcttgggatt cttatcttgc tgctgggggtt      300
ttcggcggag ggaccaagct gaccgtccta                                     330

```

```

<210> 47
<211> 330
<212> DNA
<213> Artificial sequence

```

```

<220>
<223> Synthetic sequence: Nucleotide sequence of light chain variable
      domain sequence for anti-TIM-3 antibody clone 2F4

```

```

<400> 47

```

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```

cagtctgtgc tgacgcagcc gccctcagtg tctgcggccc caggacagaa agtcaccatc      60
tcctgctctg gaagcagctc caacattggg aataattatg tatcctggta ccagcagctc      120
ccaggaacag cccccaaact cctcatTTat ggcaataatt ggcgaccctc agggattcct      180
gaccgcttct ctggctccaa gtctggcacc tcagccaccc tgggcatcac cggacttcag      240
actggggacg aggccgatta ttactgcgaa tcttgggatt atgattatgc ttctgggggt      300
ttcggcggag ggaccaagct gaccgtccta                                     330

```

<210> 48
 <211> 330
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic sequence: Nucleotide sequence of light chain variable domain sequence for anti-TIM-3 antibody clone 2G6

```

<400> 48
cagtctgtgt tgacgcagcc gccctcagtg tctgcggccc caggacagaa agtcaccatc      60
tcctgctctg gaagcagctc caacattggg aataattatg tatcctggta ccagcagctc      120
ccaggaacag cccccaaact cctcatTTat ggcaataatt ggcgaccctc agggattcct      180
gaccgcttct ctggctccaa gtctggcacc tcagccaccc tgggcatcac cggacttcag      240
actggggacg aggccgatta ttactgcgat tcttgggatt cttctgattc ttctgggggt      300
ttcggcggag ggaccaagct gaccgtccta                                     330

```

<210> 49
 <211> 330
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic sequence: Nucleotide sequence of light chain variable domain sequence for anti-TIM-3 antibody clone 1D9

```

<400> 49
cagtctgtgc tgacgcagcc gccctcagtg tctgcggccc caggacagaa agtcaccatc      60

```

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```
tcctgctctg gaagcagctc caacattggg aataattatg tatcctggta ccagcagctc 120
ccaggaacag cccccaaact cctcatttat ggcaataatt ggcgaccctc agggattcct 180
gaccgcttct ctggctccaa gtctggcacc tcagccaccc tgggcatcac cggacttcag 240
actggggacg aggccgatta ttactgcgaa gcttgggatt ctgcttatgc tgctgggtct 300
ttcggcggag ggaccaagct gaccgtccta 330
```

<210> 50
 <211> 330
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic sequence: Nucleotide sequence of light chain variable domain sequence for anti-TIM-3 antibody clone 1F4

```
<400> 50
cagtctgtgt tgacgcagcc gccctcagtg tctgcggccc caggacagaa agtcaccatc 60
tcctgctctg gaagcagctc caacattggg aataattatg tatcctggta ccagcagctc 120
ccaggaacag cccccaaact cctcatttat ggcaataatt ggcgaccctc agggattcct 180
gaccgcttct ctggctccaa gtctggcacc tcagccaccc tgggcatcac cggacttcag 240
actggggacg aggccgatta ttactgcgat tcttgggatg ctgctctttc tgctggggtt 300
ttcggcggag ggaccaagct gaccgtccta 330
```

<210> 51
 <211> 330
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic sequence: Nucleotide sequence of light chain variable domain sequence for anti-TIM-3 antibody clone 2C8

```
<400> 51
cagtctgtgc tgacgcagcc gccctcagtg tctgcggccc caggacagaa agtcaccatc 60
tcctgctctg gaagcagctc caacattggg aataattatg tatcctggta ccagcagctc 120
```

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ccaggaacag cccccaaact cctcatTTat ggcaataatt ggcgaccctc agggattcct 180
gaccgcttct ctggctccaa gtctggcacc tcagccaccc tgggcatcac cggacttcag 240
actggggacg aggccgatta ttactgcgaa tcttgggatg ctgctgctgc tgctgggtat 300
ttcggcggag ggaccaagct gaccgtccta 330

<210> 52
<211> 348
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic sequence: Nucleotide sequence of heavy chain variable domain sequence for anti-TIM-3 antibody clone 1B9

<400> 52
caggtgcagc tacagcagtg gggcgcagga ctgttgaagc cttcggagac cctgtccctc 60
acctgcgctg tctatgggtg gtccttcagt gggtactact ggagctggat ccgccagccc 120
ccagggaagg ggctggagtg gattggggaa atcaatcata gtggaagcac caactacaac 180
ccgtccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccttg 240
aaactgagct ctgtgaccgc cgcggacacg gctgtgtatt actgtgcgag aggctatgtt 300
gctggctctg atgcttgggg ccagggaacc ctggtcaccg tctcaagc 348

<210> 53
<211> 348
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic sequence: Nucleotide sequence of heavy chain variable domain sequence for anti-TIM-3 antibody clone 1H9

<400> 53
caggtgcagc tacagcagtg gggcgcagga ctgttgaagc cttcggagac cctgtccctc 60
acctgcgctg tctatgggtg gtccttcagt gggtactact ggagctggat ccgccagccc 120
ccagggaagg ggctggagtg gattggggaa atcaatcata gtggaagcac caactacaac 180

311SG439-seq1-000001

ccgtccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccttg 240
aaactgagct ctgtgaccgc cgcggaacac gctgtgtatt actgtgagag aggctatggt 300
gctggctttg atgattgggg ccagggaacc ctggtcaccg tctcaagc 348

<210> 54
<211> 348
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic sequence: Nucleotide sequence of heavy chain variable domain sequence for anti-TIM-3 antibody clone 1H10

<400> 54
caggtgcagc tacagcagtg gggcgcagga ctgttgaagc cttcggagac cctgtccctc 60
acctgcgctg tctatggtgg gtccttcagt gggtactact ggagctggat ccgccagccc 120
ccagggaagg ggctggagtg gattggggaa atcaatcata gtggaagcac caactacaac 180
ccgtccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccttg 240
aaactgagct ctgtgaccgc cgcggaacac gctgtgtatt actgtgagag aggctatggt 300
gctggctttg attcttgggg ccagggaacc ctggtcaccg tctcaagc 348

<210> 55
<211> 348
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic sequence: Nucleotide sequence of heavy chain variable domain sequence for anti-TIM-3 antibody clone 2C7

<400> 55
caggtgcagc tacagcagtg gggcgcagga ctgttgaagc cttcggagac cctgtccctc 60
acctgcgctg tctatggtgg gtccttcagt gggtactact ggagctggat ccgccagccc 120
ccagggaagg ggctggagtg gattggggaa atcaatcata gtggaagcac caactacaac 180
ccgtccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccttg 240

311SG439-seql-000001

aaactgagct ctgtgaccgc cgcggacacg gctgtgtatt actgtgagaggctatggtt 300
gctggctatg attattgggg ccagggaacc ctggtcaccg tctcaagc 348

<210> 56
<211> 348
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic sequence: Nucleotide sequence of heavy chain variable domain sequence for anti-TIM-3 antibody clone 2F4

<400> 56
caggtgcagc tacagcagtg gggcgcagga ctgttgaagc cttcggagac cctgtccctc 60
acctgcgctg tctatgggtgg gtccttcagt gggtactact ggagctggat ccgccagccc 120
ccagggaagg ggctggagtg gattgggggaa atcaatcata gtggaagcac caactacaac 180
ccgtccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccttg 240
aaactgagct ctgtgaccgc cgcggacacg gctgtgtatt actgtgagaggctatggtt 300
gctggctctg atgcttgggg ccagggaacc ctggtcaccg tctcaagc 348

<210> 57
<211> 348
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic sequence: Nucleotide sequence of heavy chain variable domain sequence for anti-TIM-3 antibody clone 2G6

<400> 57
caggtgcagc tacagcagtg gggcgcagga ctgttgaagc cttcggagac cctgtccctc 60
acctgcgctg tctatgggtgg gtccttcagt gggtactact ggagctggat ccgccagccc 120
ccagggaagg ggctggagtg gattgggggaa atcaatcata gtggaagcac caactacaac 180
ccgtccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccttg 240
aaactgagct ctgtgaccgc cgcggacacg gctgtgtatt actgtgagaggctatggtt 300

311SG439-seql-000001

gctggctttg attcttgggg ccagggaacc ctggtcaccg tctcaagc 348

<210> 58

<211> 348

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic sequence: Nucleotide sequence of heavy chain variable domain sequence for anti-TIM-3 antibody clone 1D9

<400> 58

caggtgcagc tacagcagtg gggcgcagga ctgttgaagc cttcggagac cctgtccctc 60

acctgcgctg tctatgggtg gtccttcagt gggtactact ggagctggat ccgccagccc 120

ccagggaagg ggctggagtg gattggggaa atcaatcata gtggaagcac caactacaac 180

ccgtccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccttg 240

aaactgagct ctgtgaccgc cgcggacacg gctgtgtatt actgtgcgag aggctattat 300

gctggcgatg attattgggg ccagggaacc ctggtcaccg tctcaagc 348

<210> 59

<211> 348

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic sequence: Nucleotide sequence of heavy chain variable domain sequence for anti-TIM-3 antibody clone 1F4

<400> 59

caggtgcagc tacagcagtg gggcgcagga ctgttgaagc cttcggagac cctgtccctc 60

acctgcgctg tctatgggtg gtccttcagt gggtactact ggagctggat ccgccagccc 120

ccagggaagg ggctggagtg gattggggaa atcaatcata gtggaagcac caactacaac 180

ccgtccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccttg 240

aaactgagct ctgtgaccgc cgcggacacg gctgtgtatt actgtgcgag aggctatggt 300

gctggctatg attattgggg ccagggaacc ctggtcaccg tctcaagc 348

311SG439-seq1-000001

<210> 60
 <211> 348
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic sequence: Nucleotide sequence of heavy chain variable domain sequence for anti-TIM-3 antibody clone 2C8

<400> 60
 caggtgcagc tacagcagtg gggcgcagga ctgttgaagc cttcggagac cctgtccctc 60
 acctgcgctg tctatggtgg gtccttcagt gggtactact ggagctggat ccgccagccc 120
 ccagggaagg ggctggagtg gattggggaa atcaatcata gtggaagcac caactacaac 180
 ccgtccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccttg 240
 aaactgagct ctgtgaccgc cgcggacacg gctgtgtatt actgtgcgag aggctatgtt 300
 gctggctctg atgcttgggg ccagggaacc ctggtcaccg tctcaagc 348

<210> 61
 <211> 5
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic sequence: HC-CDR1

<400> 61

Gly Tyr Tyr Trp Ser
 1 5