

SEQUENCE LISTING

<110> VHSquared Limited

<120> Polypeptides

<130> VHS-P1862PC

<160> 35

<170> BiSSAP 1.3

<210> 1

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide sequence of anti-TNF-alpha ICVD Q65B1

<400> 1

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

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<210> 2

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide sequence of anti-TNF-alpha ICVD ID8F-EV (ID32F)

<400> 2

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

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<210> 3

<211> 115

<212> PRT

<213> Artificial Sequence

eo1f-seq1

<220>

<223> Polypeptide sequence of anti-TNF-alpha ICVD ID43F

<400> 3

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

```

<210> 4

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide sequence of anti-TNF-alpha ICVD ID44F

<400> 4

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

```

<210> 5

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide sequence of anti-TNF-alpha ICVD ID34F

<400> 5

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1      5      10
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser Ser His
20      25      30
Trp Met Tyr Trp Val Arg Gln Ala Pro Gly Lys Glu Leu Glu Trp Leu
35      40      45
Ser Glu Ile Asn Thr Asn Gly Leu Ile Thr His Tyr Gly Asp Ser Val
50      55      60
Lys Gly Arg Phe Thr Val Ser Arg Asn Asn Ala Ala Asn Lys Met Tyr
65      70      75
Leu Glu Leu Thr Arg Leu Glu Pro Glu Asp Thr Ala Leu Tyr Tyr Cys
80

```

eolf-seq1

Ala	Arg	Asn	Gln	85	His	Gly	Leu	Asn	Lys	90	Gly	Gln	Gly	Thr	Gln	95	Val	Thr
			100						105						110			
Val	Ser	Ser																
		115																

<210> 6
 <211> 122
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Polypeptide sequence of anti-TcdB ICVD B10F1

<400> 6

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

<210> 7
 <211> 124
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Polypeptide sequence of anti-TcdB ICVD Q31B1

<400> 7

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

<210> 8
 <211> 122
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Polypeptide sequence of anti-TcdB ICVD ID1B

<400> 8

Asp	Val	Gln	Leu	Gln	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

eolf-seql

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

<210> 9

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide sequence of anti-TcdB ICVD ID2B

<400> 9

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

<210> 10

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide sequence of anti-TcdB ICVD ID20B

<400> 10

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

eo1f-seq1

<210> 11
 <211> 124
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Polypeptide sequence of anti-TcdB ICVD ID21B

<400> 11
 Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Leu Ser Ser Tyr
 20 25 30
 Thr Ile Gly Trp Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val
 35 40 45
 Ala Gly Ser Ser Arg Asp Gly Arg Thr Asn Tyr Tyr Ala Asn Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ala His Thr Thr Ser Gly Val Pro Val His Glu Arg Ser Tyr Ala
 100 105 110
 Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 12
 <211> 124
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Polypeptide sequence of anti-TcdB ICVD ID22B

<400> 12
 Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Leu Ser Ser Tyr
 20 25 30
 Thr Ile Gly Trp Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val
 35 40 45
 Ala Gly Ser Ser Arg Asp Gly Arg Thr Asn Tyr Tyr Ala Asn Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ala His Thr Thr Ser Gly Val Pro Val Arg Glu His Ser Tyr Ala
 100 105 110
 Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 13
 <211> 122
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Polypeptide sequence of anti-TcdB ICVD ID24B

<400> 13
 Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Phe Ser Ser Tyr
 20 25 30
 Tyr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45
 Ala Ala Ile Asn Gly Ser Gly Gly Asn His Ile Ser Ala Asp Ser Val

eo1f-seq1

50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Leu Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ala Ser Leu Thr Tyr Tyr Gly Arg Ser Ala Arg Tyr Asp Tyr Trp
 100 105 110
 Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 14
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of anti-TcdB ICVD ID25B

<400> 14
 Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Phe Ser Ser Tyr
 20 25 30
 Tyr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45
 Ala Ala Ile Asn Gly Ser Gly Gly Asn Arg Ile Ser Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Leu Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ala Ser Leu Thr Tyr Tyr Gly Arg Ser Ala His Tyr Asp Tyr Trp
 100 105 110
 Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 15
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of anti-TcdB ICVD ID27B

<400> 15
 Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Phe Ser Ser Tyr
 20 25 30
 Tyr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45
 Ala Ala Ile Asn Gly Ser Gly Gly Asn Arg Ile Ser Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Leu Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ala Ser Leu Thr Tyr Tyr Gly His Ser Ala Arg Tyr Asp Tyr Trp
 100 105 110
 Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 16
 <211> 266
 <212> PRT
 <213> Artificial Sequence

<220>

eof-seq1

<223> Polypeptide sequence of anti-TcdB construct ID41B

<400> 16

```

Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1      5      10
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Leu Ser Ser Tyr
20
Thr Met Gly Trp Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val
35
Ala Gly Ser Ser Arg Asp Gly Arg Thr Asn Tyr Tyr Ala Asn Ser Val
50
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65      70      75
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85      90      95
Ala Ala His Thr Thr Ser Gly Val Pro Val His Glu Arg Ser Tyr Ala
100      105      110
Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly
115      120      125
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
130      135      140
Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
145      150      155
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Phe Ser Ser Tyr
165      170      175
Tyr Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
180      185      190
Ala Ala Ile Asn Gly Ser Gly Gly Asn Arg Ile Ser Ala Asp Ser Val
195      200      205
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
210      215      220
Leu Gln Leu Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
225      230      235
Ala Ala Ser Leu Thr Tyr Tyr Gly His Ser Ala Arg Tyr Asp Tyr Trp
245      250      255
Gly Gln Gly Thr Gln Val Thr Val Ser Ser
260      265

```

<210> 17

<211> 266

<212> PRT

<213> Artificial sequence

<220>

<223> Polypeptide sequence of anti-TcdB construct ID43B

<400> 17

```

Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1      5      10
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Leu Ser Ser Tyr
20
Thr Met Gly Trp Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val
35
Ala Gly Ser Ser Arg Asp Gly Arg Thr Asn Tyr Tyr Ala Asn Ser Val
50
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65      70      75
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85      90      95
Ala Ala His Thr Thr Ser Gly Val Pro Val His Glu Arg Ser Tyr Ala
100      105      110
Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly
115      120      125
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
130      135      140
Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
145      150      155
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Phe Ser Ser Tyr

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eolf-seql

Tyr	Met	Gly	Trp	165	Arg	Gln	Ala	Pro	170	Gly	Lys	Glu	Arg	Glu	175	Phe	Val
Ala	Ala	Ile	Asn	180	Gly	Ser	Gly	Asn	185	Arg	Ile	Ser	Ala	Asp	190	Ser	Val
Lys	Gly	Arg	Phe	195	Thr	Ile	Ser	Arg	200	Asn	Ala	Lys	Asn	205	Thr	Val	Tyr
Leu	Gln	Leu	Asn	210	Ser	Leu	Lys	Pro	215	Glu	Asp	Thr	Ala	220	Val	Tyr	Cys
225	Ala	Ala	Ser	230	Thr	Tyr	Tyr	Gly	235	His	Ser	Ala	His	240	Tyr	Trp	
Ala	Gln	Gly	Thr	245	Gln	Val	Thr	Val	250	Ser	Ser			255			
				260					265								

<210> 18
 <211> 124
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of anti-TcdB ICVD ID45B

<400> 18

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

<210> 19
 <211> 124
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of anti-TcdB ICVD ID46B

<400> 19

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

<210> 20
 <211> 124

eolf-seq1

<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide sequence of anti-TcdB ICVD ID47B

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<400> 20
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1      5      10      15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Leu Ser Ser Tyr
20      25      30
Thr Met Gly Trp Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val
35      40      45
Ala Gly Ser Ser Arg Asp Gly Arg Thr Asn Tyr Tyr Ala Asn Ser Val
50      55      60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65      70      75      80
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85      90      95
Ala Ala His Thr Ser Gly Val Pro Val Ala Glu Arg Ser Tyr Ala
100      105      110
Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115      120
```

<210> 21
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide sequence of anti-TcdB ICVD ID48B

```
<400> 21
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1      5      10      15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Leu Ser Ser Tyr
20      25      30
Thr Met Gly Trp Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val
35      40      45
Ala Gly Ser Ser Arg Asp Gly Arg Thr Asn Tyr Tyr Ala Asn Ser Val
50      55      60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65      70      75      80
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85      90      95
Ala Ala His Thr Thr Ser Gly Val Pro Val Gln Glu Arg Ser Tyr Ala
100      105      110
Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115      120
```

<210> 22
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide sequence of anti-TcdB ICVD ID49B

```
<400> 22
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1      5      10      15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Leu Ser Ser Tyr
20      25      30
Thr Met Gly Trp Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val
35      40      45
Ala Gly Ser Ser Arg Asp Gly Arg Thr Asn Tyr Tyr Ala Asn Ser Val
50      55      60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
```

eolf-seql

65	Leu	Gln	Met	Asn	Ser	70	Leu	Lys	Pro	Glu	Asp	75	Thr	Ala	Val	Tyr	Tyr	80	Cys
					85						90						95		
	Ala	Ala	His	Thr	Thr	Ser	Gly	Val	Pro	Val	Phe	Glu	Arg	Ser	Tyr	Ala			
			100						105					110					
	Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser							
			115					120											

<210> 23
 <211> 124
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of anti-TcdB ICVD ID50B

<400> 23

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

<210> 24
 <211> 257
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of anti-TcdA construct ID17A

<400> 24

Asp	Val	Gln	Leu	Gln	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1			5					10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ala	Thr	Ser	Asp	Val	Tyr
			20					25					30		
Ala	Met	Gly	Trp	Phe	Arg	Gln	Val	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Val
		35					40					45			
Ala	Thr	Ile	Asn	Arg	Ser	Gly	Ser	Asp	Ser	Tyr	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Glu	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Ala	Ser	Arg	Ser	Asp	Cys	Ile	Gly	Tyr	Gly	Cys	Arg	Arg	Val	Ser
			100					105					110		
Gln	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Gly	Gly
		115					120					125			
Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly
	130					135					140				
Gly	Ser	Asp	Val	Gln	Leu	Gln	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala
145					150					155					160
Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Val	Ile	Ser	Gly	Met	Asp	Phe	Ser
			165						170					175	
His	Lys	Pro	Ala	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu
			180					185					190		
Phe	Val	Ala	Ser	Ile	Thr	Thr	Arg	Ala	Ser	Thr	His	Tyr	Ala	Asp	Ser

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Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
 210 215 220
 Tyr Leu Glu Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr
 225 230 235 240
 Cys Asn Ser Glu Tyr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
 245 250 255
 Ser

<210> 25
 <211> 257
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of anti-TcdA construct ID29A

<400> 25
 Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Ser Asp Val Tyr
 20 25 30
 Ala Met Gly Trp Phe Arg Gln Val Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45
 Ala Thr Ile Asn Arg Ser Gly Ser Asp Ser Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Pro Glu Glu Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ala Ser Arg Ser Asp Cys Ile Gly Tyr Gly Cys His Arg Val Ser
 100 105 110
 Gln Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly
 115 120 125
 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
 130 135 140
 Gly Ser Asp Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala
 145 150 155 160
 Gly Gly Ser Leu Arg Leu Ser Cys Val Ile Ser Gly Met Asp Phe Ser
 165 170 175
 His Lys Pro Ala Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu
 180 185 190
 Phe Val Ala Ser Ile Thr Thr Arg Ala Ser Thr His Tyr Ala Asp Ser
 195 200 205
 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
 210 215 220
 Tyr Leu Glu Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr
 225 230 235 240
 Cys Asn Ser Glu Tyr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
 245 250 255
 Ser

<210> 26
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Example CDR A

<400> 26
 Ala Arg Asn Glu Cys Asp Gln Gly His Ile Leu Lys Met Phe Pro
 1 5 10 15

<210> 27
 <211> 5

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<212> PRT
<213> Artificial Sequence

<220>
<223> First third of Example CDR A

<400> 27
Ala Arg Asn Glu Cys
1 5

<210> 28
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Second third of Example CDR A

<400> 28
Asp Gln Gly His Ile
1 5

<210> 29
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Third third of Example CDR A

<400> 29
Leu Lys Met Phe Pro
1 5

<210> 30
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Example CDR B

<400> 30
Ala Arg Asn Glu Cys Asp Gln Gly
1 5

<210> 31
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Second third of Example CDR B

<400> 31
Asn Glu Cys Asp
1

<210> 32
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide sequence of anti-IL6R ICVD 7F6

<400> 32
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly

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

<210> 33
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of anti-IL6R ICVD ID-3V

<400> 33

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

<210> 34
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide sequence of anti-IL6R ICVD 5G9

<400> 34

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

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<210> 35

<211> 123

<212> PRT

<213> Artificial sequence

<220>

<223> Polypeptide sequence of anti-IL6R ICVD ID-54V

<400> 35

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