

sequence listing.txt
SEQUENCE LISTING

<110> Affimed GmbH

<120> CD3 binding domain

<130> A 3268

<150> PCT/EP2014/002177

<151> 2014-08-07

<160> 18

<170> BISSAP 1.0

<210> 1

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<221> SOURCE

<222> 1..110

<223> /mol_type="protein"

/note="VL of var_w"

/organism="Artificial Sequence"

<400> 1

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

<210> 2

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<221> SOURCE

<222> 1..110

<223> /mol_type="protein"

/note="VL of var_x"

/organism="Artificial Sequence"

<400> 2

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

sequence listing.txt

Asn Leu Trp Val Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 3
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..110
<223> /mol_type="protein"
/note="VL of var_y"
/organism="Artificial Sequence"

<400> 3
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 Ser Ser Thr Gly Ala Val Thr Thr
20 25 30
Ser Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Lys Ala Pro Lys
35 40 45
Ala Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ser Arg
50 55 60
Phe Ser Gly Ser Leu Ile Gly Asp Lys Ala Thr Leu Thr Ile Ser Ser
65 70 75 80
Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Ala Leu Trp Tyr Ser
85 90 95
Asn Leu Trp Val Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 4
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..110
<223> /mol_type="protein"
/note="VL of var_z"
/organism="Artificial Sequence"

<400> 4
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 Ser Ser Thr Gly Ala Val Thr Thr
20 25 30
Ser Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Lys Ala Pro Lys
35 40 45
Gly Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ser Arg
50 55 60
Phe Ser Gly Ser Leu Ile Gly Asp Lys Ala Thr Leu Thr Ile Ser Ser
65 70 75 80
Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Ala Leu Trp Tyr Ser
85 90 95
Asn Leu Trp Val Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 5
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..109
<223> /mol_type="protein"

sequence listing.txt

/note="VL of murine SP34"
/organism="Artificial Sequence"

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

<210> 6
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..125
<223> /mol_type="protein"
/note="VH of var_w"
/organism="Artificial Sequence"

<400> 6
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 Thr Tyr
20 25 30
Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60
Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser
65 70 75 80
Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95
Tyr Cys Ala Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
100 105 110
Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 7
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..125
<223> /mol_type="protein"
/note="VH of var_x"
/organism="Artificial Sequence"

<400> 7
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 Thr Tyr
20 25 30
Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

sequence listing.txt

Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60
Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser
65 70 75 80
Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95
Tyr Cys Ala Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
100 105 110
Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 8
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..125
<223> /mol_type="protein"
/note="VH of var_y"
/organism="Artificial Sequence"

<400> 8
Glu Val Gln Leu Val Glu Ser 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 Thr Tyr
20 25 30
Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60
Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser
65 70 75 80
Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95
Tyr Cys Ala Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Tyr Phe
100 105 110
Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 9
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..125
<223> /mol_type="protein"
/note="VH of var_z"
/organism="Artificial Sequence"

<400> 9
Glu Val Gln Leu Val Glu Ser 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 Thr Tyr
20 25 30
Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60
Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser
65 70 75 80
Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95
Tyr Cys Ala Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser His Phe
100 105 110

sequence listing.txt

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

<210> 10
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..125
<223> /mol_type="protein"
/note="VH of murine SP34"
/organism="Artificial Sequence"

<400> 10

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

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

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

Ala	Arg	Ile	Arg	Ser	Lys	Tyr	Asn	Asn	Tyr	Ala	Thr	Tyr	Tyr	Tyr	Ala	Asp
					50			55					60			

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

Leu	Tyr	Leu	Gln	Met	Asn	Asn	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Met	Tyr	
					85			90					95			

Tyr	Cys	Val	Arg	His	Gly	Asn	Phe	Gly	Asn	Ser	Tyr	Val	Ser	Trp	Phe	
					100			105					110			

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

<210> 11
<211> 494
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..494
<223> /mol_type="protein"
/note="TandAb D"
/organism="Artificial Sequence"

<400> 11

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	Ser	Ser	Thr	Gly	Ala	Val	Thr	Thr	
							20			25			30			

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

Ala	Leu	Ile	Gly	Gly	Thr	Asn	Lys	Arg	Ala	Pro	Gly	Val	Pro	Ser	Arg	
							50			55			60			

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

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

Asn	Leu	Trp	Val	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Gly	Gly	
							100			105			110			

Ser	Gly	Gly	Ser	Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	
							115			120			125			

Lys	Pro	Gly	Glu	Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	
							130			135			140			

Phe	Thr	Ser	Tyr	Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	
							145			150			155			160

Leu	Glu	Trp	Met	Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	
							165			170			175			

sequence listing.txt

Ser Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile
 180 185 190
 Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala
 195 200 205
 Met Tyr Tyr Cys Ala Arg Leu Gly Ser Ser Trp Thr Asn Asp Ala Phe
 210 215 220
 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Ser
 225 230 235 240
 Gly Gly Ser Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser
 245 250 255
 Pro Gly Gln Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys
 260 265 270
 Gln Tyr Ala Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu
 275 280 285
 Val Ile Tyr Lys Asp Ser Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe
 290 295 300
 Ser Gly Ser Ser Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly Val
 305 310 315 320
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ala Asp Ser Ser
 325 330 335
 Gly Thr Pro Leu Ile Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu
 340 345 350
 Gly Gly Ser Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
 355 360 365
 Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
 370 375 380
 Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
 385 390 395 400
 Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
 405 410 415
 Ala Thr Tyr Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
 420 425 430
 Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr
 435 440 445
 Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg His Gly Asn Phe Gly Asn
 450 455 460
 Ser Tyr Val Ser Tyr Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
 465 470 475 480
 Val Ser Ser Ala Ala Gly Ser His His His His His His
 485 490

<210> 12
 <211> 494
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> SOURCE
 <222> 1..494
 <223> /mol_type="protein"
 /note="TandAb E"
 /organism="Artificial Sequence"

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

sequence listing.txt

Ser Gly Gly Ser Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys
 115 120 125
 Lys Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser
 130 135 140
 Phe Thr Ser Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly
 145 150 155 160
 Leu Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr
 165 170 175
 Ser Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile
 180 185 190
 Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala
 195 200 205
 Met Tyr Tyr Cys Ala Arg Leu Gly Ser Ser Trp Thr Asn Asp Ala Phe
 210 215 220
 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Ser
 225 230 235 240
 Gly Gly Ser Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser
 245 250 255
 Pro Gly Gln Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys
 260 265 270
 Gln Tyr Ala Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu
 275 280 285
 Val Ile Tyr Lys Asp Ser Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe
 290 295 300
 Ser Gly Ser Ser Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly Val
 305 310 315 320
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ala Asp Ser Ser
 325 330 335
 Gly Thr Pro Leu Ile Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu
 340 345 350
 Gly Gly Ser Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
 355 360 365
 Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
 370 375 380
 Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
 385 390 395 400
 Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
 405 410 415
 Ala Thr Tyr Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
 420 425 430
 Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr
 435 440 445
 Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg His Gly Asn Phe Gly Asn
 450 455 460
 Ser Tyr Val Ser His Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
 465 470 475 480
 Val Ser Ser Ala Ala Ala Gly Ser His His His His His His
 485 490

<210> 13
 <211> 493
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> SOURCE
 <222> 1..493
 <223> /mol_type="protein"
 /note="TandAb F"
 /organism="Artificial Sequence"

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

sequence listing.txt

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg Phe
50 55 60
Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80
Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser Asn
85 90 95
Leu Trp Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Ser
100 105 110
Gly Gly Ser Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
115 120 125
Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe
130 135 140
Thr Ser Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu
145 150 155 160
Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser
165 170 175
Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser
180 185 190
Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met
195 200 205
Tyr Tyr Cys Ala Arg Leu Gly Ser Ser Trp Thr Asn Asp Ala Phe Asp
210 215 220
Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Ser Gly
225 230 235 240
Gly Ser Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro
245 250 255
Gly Gln Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Gln
260 265 270
Tyr Ala Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val
275 280 285
Ile Tyr Lys Asp Ser Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser
290 295 300
Gly Ser Ser Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly Val Gln
305 310 315 320
Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ala Asp Ser Ser Gly
325 330 335
Thr Pro Leu Ile Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly
340 345 350
Gly Ser Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
355 360 365
Val Gln Pro Lys Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
370 375 380
Thr Phe Asn Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
385 390 395 400
Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala
405 410 415
Thr Tyr Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp
420 425 430
Asp Ser Gln Ser Ile Leu Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu
435 440 445
Asp Thr Ala Met Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser
450 455 460
Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
465 470 475 480
Ser Ser Ala Ala Ala Gly Ser His His His His His His
485 490

<210> 14
<211> 494
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..494
<223> /mol_type="protein"
/note="TandAb G"
/organism="Artificial sequence"

sequence listing.txt

<400> 14
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 Ser Ser Thr Gly Ala Val Thr Thr
20 25 30
Ser Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Lys Ala Pro Lys
35 40 45
Gly Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ser Arg
50 55 60
Phe Ser Gly Ser Leu Ile Gly Asp Lys Ala Thr Leu Thr Ile Ser Ser
65 70 75 80
Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Ala Leu Trp Tyr Ser
85 90 95
Asn Leu Trp Val Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Gly Gly
100 105 110
Ser Gly Gly Ser Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys
115 120 125
Lys Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser
130 135 140
Phe Thr Ser Tyr Trp Ile Trp Val Arg Gln Met Pro Gly Lys Gly
145 150 155 160
Leu Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr
165 170 175
Ser Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile
180 185 190
Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala
195 200 205
Met Tyr Tyr Cys Ala Arg Leu Gly Ser Ser Trp Thr Asn Asp Ala Phe
210 215 220
Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Ser
225 230 235 240
Gly Gly Ser Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser
245 250 255
Pro Gly Gln Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys
260 265 270
Gln Tyr Ala Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu
275 280 285
Val Ile Tyr Lys Asp Ser Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe
290 295 300
Ser Gly Ser Ser Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly Val
305 310 315 320
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ala Asp Ser Ser
325 330 335
Gly Thr Pro Leu Ile Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu
340 345 350
Gly Gly Ser Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
355 360 365
Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
370 375 380
Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
385 390 395 400
Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
405 410 415
Ala Thr Tyr Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
420 425 430
Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr
435 440 445
Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg His Gly Asn Phe Gly Asn
450 455 460
Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
465 470 475 480
Val Ser Ser Ala Ala Ala Gly Ser His His His His His His His
485 490

<210> 15
<211> 494
<212> PRT

sequence listing.txt

<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..494
<223> /mol_type="protein"
/note="TandAb H"
/organism="Artificial Sequence"

<400> 15
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 Ser Ser Thr Gly Ala Val Thr Thr
20 25 30
Ser Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Lys Ala Pro Lys
35 40 45
Gly Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg
50 55 60
Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser
65 70 75 80
Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Ala Leu Trp Tyr Ser
85 90 95
Asn Leu Trp Val Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Gly Gly
100 105 110
Ser Gly Gly Ser Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys
115 120 125
Lys Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser
130 135 140
Phe Thr Ser Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly
145 150 155 160
Leu Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr
165 170 175
Ser Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile
180 185 190
Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala
195 200 205
Met Tyr Tyr Cys Ala Arg Leu Gly Ser Ser Trp Thr Asn Asp Ala Phe
210 215 220
Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Ser
225 230 235 240
Gly Gly Ser Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser
245 250 255
Pro Gly Gln Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys
260 265 270
Gln Tyr Ala Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu
275 280 285
Val Ile Tyr Lys Asp Ser Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe
290 295 300
Ser Gly Ser Ser Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly Val
305 310 315 320
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ala Asp Ser Ser
325 330 335
Gly Thr Pro Leu Ile Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu
340 345 350
Gly Gly Ser Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
355 360 365
Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
370 375 380
Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
385 390 395 400
Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
405 410 415
Ala Thr Tyr Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
420 425 430
Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr
435 440 445
Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg His Gly Asn Phe Gly Asn
450 455 460

sequence listing.txt

Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
465 470 475 480
Val Ser Ser Ala Ala Ala Gly Ser His His His His His His
485 490

<210> 16
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..6
<223> /mol_type="protein"
/note="peptide linker"
/organism="Artificial Sequence"

<400> 16
Gly Gly Ser Gly Gly Ser
1 5

<210> 17
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..4
<223> /mol_type="protein"
/note="peptide linker"
/organism="Artificial Sequence"

<400> 17
Gly Gly Ser Gly
1

<210> 18
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> SOURCE
<222> 1..5
<223> /mol_type="protein"
/note="peptide linker"
/organism="Artificial Sequence"

<400> 18
Gly Gly Ser Gly Gly
1 5