

SEQUENCE LISTING

<110> SANGAMO THERAPEUTICS FRANCE

<120> NEW CAR CONSTRUCTS COMPRISING TNFR2 DOMAINS

<130> 025297.W0003

<140>

<141>

<150> 62/717,234

<151> 2018-08-10

<160> 117

<170> PatentIn version 3.5

<210> 1

<211> 242

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>

<221> source

<223> /note="anti-CD19 ScFv"

<400> 1

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

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

Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Asp	Gly	Thr	Val	Lys	Leu	Leu	Ile
			35				40					45			

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

Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Gln

65		70		75		80
Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr	85	90	95			
Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Thr Gly Gly Gly Gly Ser	100	105	110			
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Lys Leu Gln Glu	115	120	125			
Ser Gly Pro Gly Leu Val Ala Pro Ser Gln Ser Leu Ser Val Thr Cys	130	135	140			
Thr Val Ser Gly Val Ser Leu Pro Asp Tyr Gly Val Ser Trp Ile Arg	145	150	155			160
Gln Pro Pro Arg Lys Gly Leu Glu Trp Leu Gly Val Ile Trp Gly Ser	165	170	175			
Glu Thr Thr Tyr Tyr Asn Ser Ala Leu Lys Ser Arg Leu Thr Ile Ile	180	185	190			
Lys Asp Asn Ser Lys Ser Gln Val Phe Leu Lys Met Asn Ser Leu Gln	195	200	205			
Thr Asp Asp Thr Ala Ile Tyr Tyr Cys Ala Lys His Tyr Tyr Tyr Gly	210	215	220			
Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val	225	230	235			240

Ser Ser

<210> 2
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 <212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>

<221> source

<223> /note="FMC63"

<400> 2

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

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

Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu Leu Ile
35 40 45

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

Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Gln
65 70 75 80

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

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Thr Gly Ser Thr Ser Gly
100 105 110

Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr Lys Gly Glu Val Lys
115 120 125

Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln Ser Leu Ser
130 135 140

Val Thr Cys Thr Val Ser Gly Val Ser Leu Pro Asp Tyr Gly Val Ser
145 150 155 160

Trp Ile Arg Gln Pro Pro Arg Lys Gly Leu Glu Trp Leu Gly Val Ile
165 170 175

Trp Gly Ser Glu Thr Thr Tyr Tyr Asn Ser Ala Leu Lys Ser Arg Leu
180 185 190

Thr Ile Ile Lys Asp Asn Ser Lys Ser Gln Val Phe Leu Lys Met Asn
195 200 205

Ser Leu Gln Thr Asp Asp Thr Ala Ile Tyr Tyr Cys Ala Lys His Tyr
210 215 220

Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser
225 230 235 240

Val Thr Val Ser Ser
245

<210> 3
<211> 245
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
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<223> /note="RITUXIMAB"

<400> 3
Ser Gln Ile Val Leu Ser Gln Ser Pro Ala Ile Leu Ser Ala Ser Pro
1 5 10 15

Gly Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Leu Ser Phe
20 25 30

Met His Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys Pro Trp Ile

35

40

45

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

Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Val Glu Ala
 65 70 75 80

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

Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg Ser Gly Gly Gly
 100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Ser Gln Val
 115 120 125

Gln Leu Arg Gln Pro Gly Ala Glu Leu Val Lys Pro Gly Ala Ser Val
 130 135 140

Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Asn Met
 145 150 155 160

His Trp Val Lys Gln Thr Pro Gly Gln Gly Leu Glu Trp Ile Gly Ala
 165 170 175

Ile Tyr Pro Gly Asn Gly Asp Thr Ser Tyr Asn Gln Lys Phe Lys Gly
 180 185 190

Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln
 195 200 205

Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg
 210 215 220

Ser His Tyr Gly Ser Asn Tyr Val Asp Tyr Trp Gly Gln Gly Thr Thr
 225 230 235 240

Leu Thr Val Ser Ser
245

<210> 4
<211> 271
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> source
<223> /note="anti-CD20 ScFv"

<400> 4
Asp Ile Gln Leu Thr Gln Ser Pro Ala Ile Leu Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Leu Ser Phe Met
20 25 30

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

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

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Thr Val Glu Ala Glu
65 70 75 80

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

Phe Gly Ala Gly Thr Lys Leu Glu Ile Ser Ser Gly Gly Gly Gly Ser
100 105 110

Gly Gly Gly Gly Ser Gly Asp Val Met Gly Val Asp Ser Gly Gly Gly
115 120 125

Leu Val Gln Pro Gly Gly Ser Arg Lys Leu Ser Cys Ala Ala Pro Gly
130 135 140

Phe Thr Phe Ser Ser Phe Gly Met His Trp Val Arg Gln Ala Pro Glu
145 150 155 160

Lys Gly Leu Glu Trp Val Ala Tyr Ile Ser Ser Pro Ser Ser Thr Leu
165 170 175

His Tyr Ala Asp Arg Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
180 185 190

Pro Lys Asn Thr Leu Phe Leu Gln Met Lys Leu Pro Ser Leu Cys Tyr
195 200 205

Gly Leu Leu Gly Pro Arg Asp His Val His Arg Leu Leu Lys His His
210 215 220

His His His His Leu Glu Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Thr
225 230 235 240

Thr Asp Ala Ala His Pro Gly Arg Ser Val Val Pro Ala Leu Leu Pro
245 250 255

Leu Leu Ala Gly Thr Leu Leu Leu Leu Glu Thr Ala Thr Ala Pro
260 265 270

<210> 5

<211> 249

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-CD20 ScFv"

<400> 5

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

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

Tyr Asn Met His Trp Val Lys Gln Thr Pro Gly Gln Gly Leu Glu Trp
35 40 45

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

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

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

Cys Ala Arg Ala Gln Leu Arg Pro Asn Tyr Trp Tyr Phe Asp Val Trp
100 105 110

Gly Ala Gly Thr Thr Val Thr Val Ser Lys Ile Ser Gly Gly Gly Gly
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Ser Ser Asp
130 135 140

Ile Val Leu Ser Gln Ser Pro Ala Ile Leu Ser Ala Ser Pro Gly Glu
145 150 155 160

Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Val Ser Tyr Met His
165 170 175

Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys Pro Trp Ile Tyr Ala
180 185 190

Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly
195 200 205

Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Val Glu Ala Glu Asp
210 215 220

Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ile Ser Asn Pro Pro Thr Phe
225 230 235 240

Gly Ala Gly Thr Lys Leu Glu Leu Lys
245

<210> 6

<211> 245

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-CD20 ScFv"

<400> 6

Ser Gln Ile Val Leu Ser Gln Ser Pro Ala Ile Leu Ser Ala Ser Pro
1 5 10 15

Gly Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Leu Ser Phe
20 25 30

Met His Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys Pro Trp Ile
35 40 45

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

Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Val Glu Ala
65 70 75 80

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

Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg Ser Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Ser Gln Val
115 120 125

Gln Leu Arg Gln Pro Gly Ala Glu Leu Val Lys Pro Gly Ala Ser Val
130 135 140

Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Asn Met
145 150 155 160

His Trp Val Lys Gln Thr Pro Gly Gln Gly Leu Glu Trp Ile Gly Ala
165 170 175

Ile Tyr Pro Gly Asn Gly Asp Thr Ser Tyr Asn Gln Lys Phe Lys Gly
180 185 190

Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln
195 200 205

Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg
210 215 220

Ser His Tyr Gly Ser Asn Tyr Val Asp Tyr Trp Gly Gln Gly Thr Thr
225 230 235 240

Leu Thr Val Ser Ser
245

<210> 7

<211> 441

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>

<221> source

<223> /note="anti-desmo 3 (domain 1-4)"

<400> 7

Glu Trp Val Lys Phe Ala Lys Pro Cys Arg Glu Gly Glu Asp Asn Ser
1 5 10 15

Lys Arg Asn Pro Ile Ala Lys Ile Thr Ser Asp Tyr Gln Ala Thr Gln
20 25 30

Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Phe
35 40 45

Gly Ile Phe Val Val Asp Lys Asn Thr Gly Asp Ile Asn Ile Thr Ala
50 55 60

Ile Val Asp Arg Glu Glu Thr Pro Ser Phe Leu Ile Thr Cys Arg Ala
65 70 75 80

Leu Asn Ala Gln Gly Leu Asp Val Glu Lys Pro Leu Ile Leu Thr Val
85 90 95

Lys Ile Leu Asp Ile Asn Asp Asn Pro Pro Val Phe Ser Gln Gln Ile
100 105 110

Phe Met Gly Glu Ile Glu Glu Asn Ser Ala Ser Asn Ser Leu Val Met
115 120 125

Ile Leu Asn Ala Thr Asp Ala Asp Glu Pro Asn His Leu Asn Ser Lys
130 135 140

Ile Ala Phe Lys Ile Val Ser Gln Glu Pro Ala Gly Thr Pro Met Phe
145 150 155 160

Leu Leu Ser Arg Asn Thr Gly Glu Val Arg Thr Leu Thr Asn Ser Leu
165 170 175

Asp Arg Glu Gln Ala Ser Ser Tyr Arg Leu Val Val Ser Gly Ala Asp
180 185 190

Lys Asp Gly Glu Gly Leu Ser Thr Gln Cys Glu Cys Asn Ile Lys Val
195 200 205

Lys Asp Val Asn Asp Asn Phe Pro Met Phe Arg Asp Ser Gln Tyr Ser
210 215 220

Ala Arg Ile Glu Glu Asn Ile Leu Ser Ser Glu Leu Leu Arg Phe Gln
225 230 235 240

Val Thr Asp Leu Asp Glu Glu Tyr Thr Asp Asn Trp Leu Ala Val Tyr
245 250 255

Phe Phe Thr Ser Gly Asn Glu Gly Asn Trp Phe Glu Ile Gln Thr Asp
260 265 270

Pro Arg Thr Asn Glu Gly Ile Leu Lys Val Val Lys Ala Leu Asp Tyr
275 280 285

Glu Gln Leu Gln Ser Val Lys Leu Ser Ile Ala Val Lys Asn Lys Ala
290 295 300

Glu Phe His Gln Ser Val Ile Ser Arg Tyr Arg Val Gln Ser Thr Pro
305 310 315 320

Val Thr Ile Gln Val Ile Asn Val Arg Glu Gly Ile Ala Phe Arg Pro
325 330 335

Ala Ser Lys Thr Phe Thr Val Gln Lys Gly Ile Ser Ser Lys Lys Leu
340 345 350

Val Asp Tyr Ile Leu Gly Thr Tyr Gln Ala Ile Asp Glu Asp Thr Asn

355

360

365

Lys Ala Ala Ser Asn Val Lys Tyr Val Met Gly Arg Asn Asp Gly Gly
370 375 380

Tyr Leu Met Ile Asp Ser Lys Thr Ala Glu Ile Lys Phe Val Lys Asn
385 390 395 400

Met Asn Arg Asp Ser Thr Phe Ile Val Asn Lys Thr Ile Thr Ala Glu
405 410 415

Val Leu Ala Ile Asp Glu Tyr Thr Gly Lys Thr Ser Thr Gly Thr Val
420 425 430

Tyr Val Arg Val Pro Asp Phe Asn Asp
435 440

<210> 8

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>

<221> source

<223> /note="Linker"

<400> 8

Ala Gly Ser Ser Ser Ser Gly Gly Ser Thr Thr Gly Gly Ser Thr Thr
1 5 10 15

<210> 9

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic"

peptide"

<220>

<221> source

<223> /note="Linker"

<400> 9

Gly	Thr	Thr	Ala	Ala	Ser	Gly	Ser	Ser	Gly	Gly	Ser	Ser	Ser	Gly	Ala
1				5					10					15	

<210> 10

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>

<221> source

<223> /note="Linker"

<400> 10

Ser	Ser	Ala	Thr	Ala	Thr	Ala	Gly	Thr	Gly	Ser	Ser	Thr	Gly	Ser	Thr
1				5					10					15	

<210> 11

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>

<221> source

<223> /note="Linker"

<400> 11

Thr	Ser	Gly	Ser	Thr	Gly	Thr	Ala	Ala	Ser	Ser	Thr	Ser	Thr	Ser	Thr
1				5					10					15	

<210> 12

<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<220>
<221> source
<223> /note="Linker"

<400> 12
ggtaggcggag gttctggagg tggaggttcc

30

<210> 13
<211> 7
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="KIR2DS2 hinge domain"

<400> 13
Lys Ile Arg Arg Asp Ser Ser
1 5

<210> 14
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="CD8 hinge domain"

<400> 14
Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
1 5 10 15

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

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp

35

40

45

<210> 15

<211> 135

<212> DNA

<213> Homo sapiens

<220>

<221> source

<223> /note="CD8 hinge domain"

<400> 15

accacgacgc cagcgccgcg accaccaaca ccggcgccca ccatcgcgtc gcagccccctg 60

tccctgcgcc cagaggcgtg ccggccagcg gcggggggcg cagtgcacac gagggggctg 120

gacttcgcct gtgat 135

<210> 16

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> source

<223> /note="IgG4 hinge domain"

<400> 16

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

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
85 90 95

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser
100 105 110

Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
115 120 125

Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln
130 135 140

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
145 150 155 160

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
165 170 175

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu
180 185 190

Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser
195 200 205

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
210 215 220

Leu Ser Leu Gly Lys Met
225 230

<210> 17

<211> 690

<212> DNA

<213> Homo sapiens

<220>

<221> source

<223> /note="IgG4 hinge domain"

<400> 17

gagagcaagt acggccctcc ctgccccct tgccctgccc ccgagttcct gggcggaccc 60
 agcgtgttcc tgttcccccc caagcccaag gacaccctga tgatcagccg gacccccgag 120
 gtgacctgtg tgggtggtgga cgtgtcccag gaggaccccg aggtccagtt caactggtac 180
 gtggacggcg tggaggtgca caacgccaag accaagcccc gggaggagca gttcaatagc 240
 acctaccggg tgggtgtccgt gctgaccgtg ctgcaccagg actggctgaa cggcaaggaa 300
 tacaagtgta aggtgtccaa caagggcctg cccagcagca tcgagaaaac catcagcaag 360
 gccaagggcc agcctcggga gccccaggtg tacaccctgc cccctagcca agaggagatg 420
 accaagaacc aggtgtccct gacctgcctg gtgaagggtt tctaccccag cgacatcgcc 480
 gtggagtggg agagcaacgg ccagccccgag aacaactaca agaccacccc ccctgtgctg 540
 gacagcgacg gcagcttctt cctgtacagc cggctgaccg tggacaagag ccggtggcag 600
 gagggcaacg tcttttagctg ctccgtgatg cacgaggccc tgcacaacca ctacaccag 660
 aagagcctga gcctgtccct gggcaagatg 690

<210> 18

<211> 282

<212> PRT

<213> Homo sapiens

<220>

<221> source

<223> /note="IgD hinge domain"

<400> 18

Arg Trp Pro Glu Ser Pro Lys Ala Gln Ala Ser Ser Val Pro Thr Ala
 1 5 10 15

Gln Pro Gln Ala Glu Gly Ser Leu Ala Lys Ala Thr Thr Ala Pro Ala
 20 25 30

Thr Thr Arg Asn Thr Gly Arg Gly Gly Glu Glu Lys Lys Lys Glu Lys
 35 40 45

Glu Lys Glu Glu Gln Glu Glu Arg Glu Thr Lys Thr Pro Glu Cys Pro
 50 55 60

Ser His Thr Gln Pro Leu Gly Val Tyr Leu Leu Thr Pro Ala Val Gln
65 70 75 80

Asp Leu Trp Leu Arg Asp Lys Ala Thr Phe Thr Cys Phe Val Val Gly
85 90 95

Ser Asp Leu Lys Asp Ala His Leu Thr Trp Glu Val Ala Gly Lys Val
100 105 110

Pro Thr Gly Gly Val Glu Glu Gly Leu Leu Glu Arg His Ser Asn Gly
115 120 125

Ser Gln Ser Gln His Ser Arg Leu Thr Leu Pro Arg Ser Leu Trp Asn
130 135 140

Ala Gly Thr Ser Val Thr Cys Thr Leu Asn His Pro Ser Leu Pro Pro
145 150 155 160

Gln Arg Leu Met Ala Leu Arg Glu Pro Ala Ala Gln Ala Pro Val Lys
165 170 175

Leu Ser Leu Asn Leu Leu Ala Ser Ser Asp Pro Pro Glu Ala Ala Ser
180 185 190

Trp Leu Leu Cys Glu Val Ser Gly Phe Ser Pro Pro Asn Ile Leu Leu
195 200 205

Met Trp Leu Glu Asp Gln Arg Glu Val Asn Thr Ser Gly Phe Ala Pro
210 215 220

Ala Arg Pro Pro Pro Gln Pro Gly Ser Thr Thr Phe Trp Ala Trp Ser
225 230 235 240

Val Leu Arg Val Pro Ala Pro Pro Ser Pro Gln Pro Ala Thr Tyr Thr
245 250 255

Cys Val Val Ser His Glu Asp Ser Arg Thr Leu Leu Asn Ala Ser Arg

260

265

270

Ser Leu Glu Val Ser Tyr Val Thr Asp His
 275 280

<210> 19

<211> 847

<212> DNA

<213> Homo sapiens

<220>

<221> source

<223> /note="IgD hinge domain"

<400> 19

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aggtggcccg aaagtcccaa ggcccaggca tctagtgttc ctactgcaca gccccaggca      60
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ggggagggaga agaaaaagga gaaagagaaa gaagaacagg aagagaggga gaccaagacc      180
cctgaatgtc catcccatac ccagccgctg ggcgctctatc tcttgactcc cgcagtacag      240
gacttgtggc ttagagataa ggccaccttt acatgtttcg tcgtgggctc tgacctgaag      300
gatgcccatt tgacttggga ggttgccgga aaggtaccca caggggggggt tgaggaaggg      360
ttgctggagc gccattccaa tggctctcag agccagcact caagactcac ctttccgaga      420
tccctgtgga acgccgggac ctctgtcaca tgtactctaa atcatcctag cctgccccca      480
cagcgtctga tggcccttag agagccagcc gcccaggcac cagttaagct tagcctgaat      540
ctgctcgcca gtagtgatcc ccagaggcc gccagctggc tcttatgcga agtgtccggc      600
ttagccccgc ccaacatctt gctcatgtgg ctggaggacc agcgagaagt gaacaccagc      660
ggcttcgctc cagcccggcc cccaccccag ccgggttcta ccacattctg ggcctggagt      720
gtcttaaggg tcccagcacc acctagcccc cagccagcca catacacctg tgttgtgtcc      780
catgaagata gcaggaccct gctaaatgct tctaggagtc tggaggtttc ctacgtgact      840
gaccatt                                           847

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<210> 20

<211> 39

<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="CD28 hinge domain"

<400> 20
Ile Glu Val Met Tyr Pro Pro Pro Tyr Leu Asp Asn Glu Lys Ser Asn
1 5 10 15

Gly Thr Ile Ile His Val Lys Gly Lys His Leu Cys Pro Ser Pro Leu
20 25 30

Phe Pro Gly Pro Ser Lys Pro
35

<210> 21
<211> 117
<212> DNA
<213> Homo sapiens

<220>
<221> source
<223> /note="CD28 hinge domain"

<400> 21
attgaagtta tgtatcctcc tccttaccta gacaatgaga agagcaatgg aaccattatc 60
catgtgaaaag ggaaacacct ttgtccaagt cccctatttc ccggaccttc taagccc 117

<210> 22
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="TNFR2 TM domain"

<400> 22
Phe Ala Leu Pro Val Gly Leu Ile Val Gly Val Thr Ala Leu Gly Leu
1 5 10 15

Leu Ile Ile Gly Val Val Asn Cys Val Ile Met Thr Gln Val

20

25

30

<210> 23
<211> 90
<212> DNA
<213> Homo sapiens

<220>
<221> source
<223> /note="TNFR2 TM domain"

<400> 23
ttcgtctctc cagttggact gattgtgggt gtgacagcct tgggtctact aataatagga 60
gtggtgaact gtgtcatcat gaccaggtg 90

<210> 24
<211> 24
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="CD8 TM"

<400> 24
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys
20

<210> 25
<211> 72
<212> DNA
<213> Homo sapiens

<220>
<221> source
<223> /note="CD8 TM"

<400> 25
atctacatct gggcgccctt ggccgggact tgtgggggtcc ttctcctgtc actggttata 60
accctttact gc 72

<210> 26
<211> 27
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="CD28 TM"

<400> 26
Phe Trp Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser Leu
1 5 10 15

Leu Val Thr Val Ala Phe Ile Ile Phe Trp Val
20 25

<210> 27
<211> 81
<212> DNA
<213> Homo sapiens

<220>
<221> source
<223> /note="CD28 TM"

<400> 27
ttttgggtgc tgggtgggtg tgggtggagtc ctggcttgct atagcttgct agtaacagtg 60
gcctttatta ttttctgggt g 81

<210> 28
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="CD3 zeta"

<400> 28
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Lys Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 29
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="CD3 zeta"

<400> 29
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 30
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="CD3 zeta"

<400> 30
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Lys Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Gln Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln
50 55 60

Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu
65 70 75 80

Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr
85 90 95

Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro
100 105 110

Arg

<210> 31
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="CD3 zeta"

<400> 31
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Gln Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln
50 55 60

Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu
65 70 75 80

Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr
85 90 95

Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro
100 105 110

Arg

<210> 32
<211> 336
<212> DNA
<213> Homo sapiens

<220>

<221> source
<223> /note="CD3 zeta"

<400> 32
agagtgaagt tcagcaggag cgcagacgcc cccgcgtaca agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggccggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggagggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca ggccctgccc cctcgc 336

<210> 33
<211> 336
<212> DNA
<213> Homo sapiens

<220>
<221> source
<223> /note="CD3 zeta"

<400> 33
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggccggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggagggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca ggccctgccc cctcgc 336

<210> 34
<211> 174
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="TNFR2 intracellular"

<400> 34

Lys Lys Lys Pro Leu Cys Leu Gln Arg Glu Ala Lys Val Pro His Leu
1 5 10 15

Pro Ala Asp Lys Ala Arg Gly Thr Gln Gly Pro Glu Gln Gln His Leu
20 25 30

Leu Ile Thr Ala Pro Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala
35 40 45

Ser Ala Leu Asp Arg Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro
50 55 60

Gly Val Glu Ala Ser Gly Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser
65 70 75 80

Ser Asp Ser Ser Pro Gly Gly His Gly Thr Gln Val Asn Val Thr Cys
85 90 95

Ile Val Asn Val Cys Ser Ser Ser Asp His Ser Ser Gln Cys Ser Ser
100 105 110

Gln Ala Ser Ser Thr Met Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser
115 120 125

Pro Lys Asp Glu Gln Val Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg
130 135 140

Ser Gln Leu Glu Thr Pro Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys
145 150 155 160

Pro Leu Pro Leu Gly Val Pro Asp Ala Gly Met Lys Pro Ser
165 170

<210> 35

<211> 522

<212> DNA

<213> Homo sapiens

<220>

<221> source
<223> /note="TNFR2 intracellular"

<400> 35
aaaaagaagc ccttgtgcct gcagagagaa gccaagggtgc ctacttgcc tgcagataag 60
gccaggggta cacagggtcc cgagcagcag cacctcctga tcacagcgcc gagctccagc 120
agcagctccc tggagagctc ggccagtgcg ctagacagaa gggccccac tcggaaccag 180
ccacaggcac caggcgtgga ggcgagtggg gctggggagg cgagggaag caccgggagc 240
tcagattctt cccctggtgg tcatggcacc caggtcaatg tcacctgtat cgtgaacgct 300
ttagcagct ctgaccacag ctacagtgc tcctccaag cctcgtccac aatgggagac 360
acagattcca gcccctcgga gtccccgaag gacgagcaag tacccttctc caaggaggaa 420
tgtgcctttc ggtcacagct ggagacgcca gagaccctgc tggggagcac cgaagagaag 480
cccctgcccc ttggagtgcc tgatgctggg atgaagccca gt 522

<210> 36
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="4-1BB intracellular"

<400> 36
Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met
1 5 10 15

Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe
20 25 30

Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu
35 40

<210> 37
<211> 126
<212> DNA
<213> Homo sapiens

<220>
<221> source
<223> /note="4-1BB intracellular"

<400> 37
aaacggggc gaaagaaact cctgtatata ttcaaacaac catttatgag accagtacaa 60
actactcaag aggaagatgg ctgtagctgc cgatttccag aagaagaaga aggaggatgt 120
gaactg 126

<210> 38
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="CD27 intracellular"

<400> 38
Gln Arg Arg Lys Tyr Arg Ser Asn Lys Gly Glu Ser Pro Val Glu Pro
1 5 10 15

Ala Glu Pro Cys Arg Tyr Ser Cys Pro Arg Glu Glu Glu Gly Ser Thr
20 25 30

Ile Pro Ile Gln Glu Asp Tyr Arg Lys Pro Glu Pro Ala Cys Ser Pro
35 40 45

<210> 39
<211> 144
<212> DNA
<213> Homo sapiens

<220>
<221> source
<223> /note="CD27 intracellular"

<400> 39
caacgaagga aatatagatc aaacaaagga gaaagtcctg tggagcctgc agagccttgt 60
cgttacagct gccccaggga ggaggagggc agcaccatcc ccatccagga ggattaccga 120
aaaccggagc ctgcctgctc cccc 144

<210> 40
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> source
<223> /note="CD28 intracellular"

<400> 40
Arg Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr Met Asn Met Thr
1 5 10 15

Pro Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro
20 25 30

Pro Arg Asp Phe Ala Ala Tyr Arg Ser
35 40

<210> 41
<211> 123
<212> DNA
<213> Homo sapiens

<220>
<221> source
<223> /note="CD28 intracellular"

<400> 41
aggagtaaga ggagcaggct cctgcacagt gactacatga acatgactcc ccgccgcccc 60
gggcccaccc gcaagcatta ccagccctat gccccaccac gcgacttcgc agcctatcgc 120
tcc 123

<210> 42
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="Leader sequence CD8"

<400> 42
Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro
20

<210> 43
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>
<221> source
<223> /note="tag"

<400> 43
Asn Trp Ser His Pro Gln Phe Glu Lys
1 5

<210> 44
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>
<221> source
<223> /note="tag"

<400> 44
Ser Ala Trp Ser His Pro Gln Phe Glu Lys
1 5 10

<210> 45
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="P2A tag"

<400> 45
Gly Ser Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val
1 5 10 15

Glu Glu Asn Pro Gly Pro
20

<210> 46
<211> 239
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>
<221> source
<223> /note="GFP tag"

<400> 46
Met Val Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu
1 5 10 15

Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly
20 25 30

Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile
35 40 45

Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr
50 55 60

Leu Thr Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys
65 70 75 80

Gln His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu
85 90 95

Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu
100 105 110

Val Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly
115 120 125

Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr
130 135 140

Asn Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn
145 150 155 160

Gly Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser
165 170 175

Val Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly
180 185 190

Pro Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu
195 200 205

Ser Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu Phe
210 215 220

Val Thr Ala Ala Gly Ile Thr Leu Gly Met Asp Glu Leu Tyr Lys
225 230 235

<210> 47

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="Streptavidin tag"

<400> 47
Ser Ala Trp Ser His Pro Gln Phe Glu Lys Ser Gly
1 5 10

<210> 48
<211> 365
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>
<221> source
<223> /note="CD8 H-TNFR2TM-TNFR2-3z"

<400> 48
Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
1 5 10 15

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

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Phe Ala Leu
35 40 45

Pro Val Gly Leu Ile Val Gly Val Thr Ala Leu Gly Leu Leu Ile Ile
50 55 60

Gly Val Val Asn Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu

65					70						75					80
Cys	Leu	Gln	Arg	Glu	Ala	Lys	Val	Pro	His	Leu	Pro	Ala	Asp	Lys	Ala	
				85					90					95		
Arg	Gly	Thr	Gln	Gly	Pro	Glu	Gln	Gln	His	Leu	Leu	Ile	Thr	Ala	Pro	
			100					105					110			
Ser	Ser	Ser	Ser	Ser	Ser	Leu	Glu	Ser	Ser	Ala	Ser	Ala	Leu	Asp	Arg	
		115					120					125				
Arg	Ala	Pro	Thr	Arg	Asn	Gln	Pro	Gln	Ala	Pro	Gly	Val	Glu	Ala	Ser	
	130					135					140					
Gly	Ala	Gly	Glu	Ala	Arg	Ala	Ser	Thr	Gly	Ser	Ser	Asp	Ser	Ser	Pro	
145					150					155					160	
Gly	Gly	His	Gly	Thr	Gln	Val	Asn	Val	Thr	Cys	Ile	Val	Asn	Val	Cys	
			165						170					175		
Ser	Ser	Ser	Asp	His	Ser	Ser	Gln	Cys	Ser	Ser	Gln	Ala	Ser	Ser	Thr	
			180					185					190			
Met	Gly	Asp	Thr	Asp	Ser	Ser	Pro	Ser	Glu	Ser	Pro	Lys	Asp	Glu	Gln	
		195					200					205				
Val	Pro	Phe	Ser	Lys	Glu	Glu	Cys	Ala	Phe	Arg	Ser	Gln	Leu	Glu	Thr	
	210					215					220					
Pro	Glu	Thr	Leu	Leu	Gly	Ser	Thr	Glu	Glu	Lys	Pro	Leu	Pro	Leu	Gly	
225					230					235					240	
Val	Pro	Asp	Ala	Gly	Met	Lys	Pro	Ser	Gly	Ser	Arg	Val	Lys	Phe	Ser	
			245						250					255		
Arg	Ser	Ala	Asp	Ala	Pro	Ala	Tyr	Gln	Gln	Gly	Gln	Asn	Gln	Leu	Tyr	
			260					265					270			

Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys
275 280 285

Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn
290 295 300

Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu
305 310 315 320

Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly
325 330 335

His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr
340 345 350

Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ala Ser
355 360 365

<210> 49

<211> 347

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>

<221> source

<223> /note="CD8 H-TNFR2 TM-TNFR2del18-3z"

<400> 49

Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
1 5 10 15

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

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Phe Ala Leu
35 40 45

Pro Val Gly Leu Ile Val Gly Val Thr Ala Leu Gly Leu Leu Ile Ile
50 55 60

Gly Val Val Asn Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu
65 70 75 80

Cys Leu Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala
85 90 95

Arg Gly Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro
100 105 110

Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg
115 120 125

Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser
130 135 140

Gly Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Asp Ser Ser Pro
145 150 155 160

Gly Gly His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys
165 170 175

Ser Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr
180 185 190

Met Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln
195 200 205

Val Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr
210 215 220

Pro Glu Thr Leu Leu Gly Ser Gly Ser Arg Val Lys Phe Ser Arg Ser
225 230 235 240

Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu
245 250 255

Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg
260 265 270

Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln
275 280 285

Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr
290 295 300

Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp
305 310 315 320

Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala
325 330 335

Leu His Met Gln Ala Leu Pro Pro Arg Ala Ser
340 345

<210> 50
<211> 306
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> source
<223> /note="CD8 H-TNFR2 TM-TNFR2del159-3z"

<400> 50
Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
1 5 10 15

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

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Phe Ala Leu
35 40 45

Pro Val Gly Leu Ile Val Gly Val Thr Ala Leu Gly Leu Leu Ile Ile
50 55 60

Gly Val Val Asn Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu
65 70 75 80

Cys Leu Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala
85 90 95

Arg Gly Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro
100 105 110

Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg
115 120 125

Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser
130 135 140

Gly Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Asp Ser Ser Pro
145 150 155 160

Gly Gly His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys
165 170 175

Ser Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Gly Ser
180 185 190

Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
195 200 205

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
210 215 220

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys

225 230 235 240

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
245 250 255

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
260 265 270

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
275 280 285

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
290 295 300

Ala Ser
305

<210> 51
<211> 261
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> source
<223> /note="CD8 H-TNFR2 TM-TNFR2del1104-3z"

<400> 51
Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
1 5 10 15

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

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Phe Ala Leu
35 40 45

Pro Val Gly Leu Ile Val Gly Val Thr Ala Leu Gly Leu Leu Ile Ile
50 55 60

Gly Val Val Asn Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu
65 70 75 80

Cys Leu Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala
85 90 95

Arg Gly Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro
100 105 110

Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg
115 120 125

Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser
130 135 140

Gly Gly Ser Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr
145 150 155 160

Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg
165 170 175

Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met
180 185 190

Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu
195 200 205

Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys
210 215 220

Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu
225 230 235 240

Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu
245 250 255

Pro Pro Arg Ala Ser
260

<210> 52
<211> 189
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>
<221> source
<223> /note="CD8 H-TNFR2 TM-3z"

<400> 52
Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
1 5 10 15

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

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Phe Ala Leu
35 40 45

Pro Val Gly Leu Ile Val Gly Val Thr Ala Leu Gly Leu Leu Ile Ile
50 55 60

Gly Val Val Asn Cys Val Ile Met Thr Gln Val Arg Val Lys Phe Ser
65 70 75 80

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

Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys
100 105 110

Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn

115

120

125

Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu
 130 135 140

Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly
 145 150 155 160

His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr
 165 170 175

Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ala Ser
 180 185

<210> 53

<211> 361

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<220>

<221> source

<223> /note="CD8 H-3z-TNFR2 TM"

<400> 53

Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
 1 5 10 15

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

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile
 35 40 45

Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val
 50 55 60

Ile Thr Leu Tyr Cys Thr Arg Arg Val Lys Phe Ser Arg Ser Ala Asp
65 70 75 80

Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
85 90 95

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
100 105 110

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
115 120 125

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
130 135 140

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
145 150 155 160

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
165 170 175

Met Gln Ala Leu Pro Pro Arg Ala Ser Lys Lys Lys Pro Leu Cys Leu
180 185 190

Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg Gly
195 200 205

Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser Ser
210 215 220

Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala
225 230 235 240

Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly Ala
245 250 255

Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Asp Ser Ser Pro Gly Gly
260 265 270

His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys Ser Ser
275 280 285

Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr Met Gly
290 295 300

Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln Val Pro
305 310 315 320

Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro Glu
325 330 335

Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val Pro
340 345 350

Asp Ala Gly Met Lys Pro Ser Ala Ser
355 360

<210> 54

<211> 359

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="CD8 H-CD8 TM- TNFR2-3z"

<400> 54

Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
1 5 10 15

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

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile

35

40

45

Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val
 50 55 60

Ile Thr Leu Tyr Cys Lys Lys Lys Pro Leu Cys Leu Gln Arg Glu Ala
 65 70 75 80

Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg Gly Thr Gln Gly Pro
 85 90 95

Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser Ser Ser Ser Ser Ser
 100 105 110

Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala Pro Thr Arg Asn
 115 120 125

Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly Ala Gly Glu Ala Arg
 130 135 140

Ala Ser Thr Gly Ser Ser Asp Ser Ser Pro Gly Gly His Gly Thr Gln
 145 150 155 160

Val Asn Val Thr Cys Ile Val Asn Val Cys Ser Ser Ser Asp His Ser
 165 170 175

Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr Met Gly Asp Thr Asp Ser
 180 185 190

Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln Val Pro Phe Ser Lys Glu
 195 200 205

Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro Glu Thr Leu Leu Gly
 210 215 220

Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val Pro Asp Ala Gly Met
 225 230 235 240

Lys Pro Ser Gly Ser Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro
245 250 255

Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly
260 265 270

Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro
275 280 285

Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr
290 295 300

Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly
305 310 315 320

Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln
325 330 335

Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln
340 345 350

Ala Leu Pro Pro Arg Ala Ser
355

<210> 55

<211> 363

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="CD8 H-FUSED 1 TM- TNFR2-3z"

<400> 55

Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
1 5 10 15

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

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile
35 40 45

Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val
50 55 60

Ile Thr Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu Cys Leu
65 70 75 80

Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg Gly
85 90 95

Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser Ser
100 105 110

Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala
115 120 125

Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly Ala
130 135 140

Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Asp Ser Ser Pro Gly Gly
145 150 155 160

His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys Ser Ser
165 170 175

Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr Met Gly
180 185 190

Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln Val Pro
195 200 205

Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro Glu
210 215 220

Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val Pro
225 230 235 240

Asp Ala Gly Met Lys Pro Ser Gly Ser Arg Val Lys Phe Ser Arg Ser
245 250 255

Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu
260 265 270

Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg
275 280 285

Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln
290 295 300

Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr
305 310 315 320

Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp
325 330 335

Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala
340 345 350

Leu His Met Gln Ala Leu Pro Pro Arg Ala Ser
355 360

<210> 56

<211> 365

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="CD8 H-FUSED 2TM- TNFR2-3z"

<400> 56

Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
1 5 10 15

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

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile
35 40 45

Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val
50 55 60

Ile Thr Val Asn Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu
65 70 75 80

Cys Leu Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala
85 90 95

Arg Gly Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro
100 105 110

Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg
115 120 125

Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser
130 135 140

Gly Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Asp Ser Ser Pro
145 150 155 160

Gly Gly His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys
165 170 175

Ser Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr

180

185

190

Met Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln
 195 200 205

Val Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr
 210 215 220

Pro Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly
 225 230 235 240

Val Pro Asp Ala Gly Met Lys Pro Ser Gly Ser Arg Val Lys Phe Ser
 245 250 255

Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr
 260 265 270

Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys
 275 280 285

Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn
 290 295 300

Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu
 305 310 315 320

Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly
 325 330 335

His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr
 340 345 350

Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ala Ser
 355 360 365

<210> 57

<211> 363

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>

<221> source

<223> /note="CD8 H-FUSED 3 TM- TNFR2-3z"

<400> 57

Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
1 5 10 15

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

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile
35 40 45

Trp Ala Pro Leu Ala Gly Thr Ala Leu Gly Leu Leu Ile Ile Gly Val
50 55 60

Val Asn Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu Cys Leu
65 70 75 80

Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg Gly
85 90 95

Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser Ser
100 105 110

Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala
115 120 125

Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly Ala
130 135 140

Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Asp Ser Ser Pro Gly Gly
145 150 155 160

His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys Ser Ser
165 170 175

Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr Met Gly
180 185 190

Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln Val Pro
195 200 205

Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro Glu
210 215 220

Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val Pro
225 230 235 240

Asp Ala Gly Met Lys Pro Ser Gly Ser Arg Val Lys Phe Ser Arg Ser
245 250 255

Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu
260 265 270

Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg
275 280 285

Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln
290 295 300

Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr
305 310 315 320

Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp
325 330 335

Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala
340 345 350

Leu His Met Gln Ala Leu Pro Pro Arg Ala Ser
355 360

<210> 58
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="LAGLIDADG motif"

<400> 58
Leu Ala Gly Leu Ile Asp Ala Asp Gly
1 5

<210> 59
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="Fusion 1 - CD8 SEQ"

<400> 59
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr
20

<210> 60
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="Fusion 2 - CD8 SEQ"

<400> 60
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr
20

<210> 61
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source
<223> /note="Fusion 3 - CD8 SEQ"

<400> 61
Ile Tyr Ile Trp Ala Pro Leu Ala Gly
1 5

<210> 62
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> source

<223> /note="Fusion 1 - TNFR2 SEQ"

<400> 62

Cys Val Ile Met Thr Gln Val
1 5

<210> 63

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>

<221> source

<223> /note="Fusion 2 - TNFR2 SEQ"

<400> 63

Val Asn Cys Val Ile Met Thr Gln Val
1 5

<210> 64

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>

<221> source

<223> /note="Fusion 3 - TNFR2 SEQ"

<400> 64

Thr Ala Leu Gly Leu Leu Ile Ile Gly Val Val Asn Cys Val Ile Met
1 5 10 15

Thr Gln Val

<210> 65

<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>
<221> source
<223> /note="scFv anti-IL-23R"

<400> 65
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 Gln Ala Ser Glu Asn Ile Tyr Ser Phe
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 Lys Leu Ala Ala 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 Thr Asn Arg Tyr Ser Asn
85 90 95

Pro Asp Ile Tyr Asn Val Phe Gly Gln Gly Thr Lys Leu Thr Val Leu
100 105 110

Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
115 120 125

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
130 135 140

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Phe Asn Ser Asn
145 150 155 160

Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
165 170 175

Ile Gly Cys Ile Tyr Val Gly Ser His Val Asn Thr Tyr Tyr Ala Asn
180 185 190

Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
195 200 205

Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
210 215 220

Tyr Cys Ala Thr Ser Gly Ser Ser Val Leu Tyr Phe Lys Phe Trp Gly
225 230 235 240

Gln Gly Thr Leu Val Thr Val Ser Ser
245

<210> 66

<211> 249

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="scFv anti-IL-23R"

<400> 66

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 Gln Ala Ser Glu Asn Ile Tyr Ser Phe
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 Lys Leu Ala Ala 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 Thr Asn Arg Tyr Ser Asn
85 90 95

Pro Asp Ile Tyr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
115 120 125

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
130 135 140

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Phe Asn Ser Asn
145 150 155 160

Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
165 170 175

Ile Gly Cys Ile Tyr Val Gly Ser His Val Asn Thr Tyr Tyr Ala Asn
180 185 190

Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
195 200 205

Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
210 215 220

Tyr Cys Ala Thr Ser Gly Ser Ser Val Leu Tyr Phe Lys Phe Trp Gly

225 230 235 240

Gln Gly Thr Leu Val Thr Val Ser Ser
245

<210> 67
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> source
<223> /note="scFv anti IL-23R"

<400> 67
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 Gln Ala Ser Glu Asn Ile Tyr Ser Phe
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 Lys Leu Ala Ala 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 Thr Asn Arg Tyr Ser Asn
85 90 95

Pro Asp Ile Tyr Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu
100 105 110

Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
115 120 125

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
130 135 140

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Phe Asn Ser Asn
145 150 155 160

Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
165 170 175

Ile Gly Cys Ile Tyr Val Gly Ser His Val Asn Thr Tyr Tyr Ala Asn
180 185 190

Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
195 200 205

Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
210 215 220

Tyr Cys Ala Thr Ser Gly Ser Ser Val Leu Tyr Phe Lys Phe Trp Gly
225 230 235 240

Gln Gly Thr Leu Val Thr Val Ser Ser
245

<210> 68

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 68

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

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

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

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

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

Met Leu Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Ile Tyr Phe Cys
85 90 95

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Val Leu Met Thr
130 135 140

Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly Asp Gln Val Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly

195

200

205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 210 215 220

Glu Asp Leu Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
 225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 245 250

<210> 69

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 69

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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Val Val Met Thr
130 135 140

Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Phe Gln Gln Arg Pro Gly Gln Ser Pro Arg Arg Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 70

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 70
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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr

165

170

175

Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
 180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
 195 200 205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
 225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 245 250

<210> 71

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 71

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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Ser Pro Val Thr Leu Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln Pro Pro Arg Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ala Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 72
<211> 251
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 72
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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Val Val Met Thr

130

135

140

Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly Gln Pro Ala Ser Ile
 145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
 165 170 175

Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Arg Leu Leu Ile
 180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
 195 200 205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
 225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 245 250

<210> 73

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 73

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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Ser Pro Val Thr Leu Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Phe Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln Pro Pro Arg Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ala Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 74
<211> 251
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 74
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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr

100

105

110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Val Val Met Thr
130 135 140

Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Phe Gln Gln Arg Pro Gly Gln Ser Pro Arg Arg Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 75

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 75

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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 76

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 76

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

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

Gly Ile Trp Ile Tyr Pro Gly Asp Gly Ser Thr Gln Tyr Asn Glu Lys
50 55 60

Phe Lys Gly Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr

65		70		75		80									
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90					95		
Ala	Arg	Glu	Gly	Thr	Tyr	Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr
			100					105					110		
Thr	Val	Thr	Val	Ser	Ser	Val	Asp	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Gly
		115					120					125			
Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Thr	Ser	Asp	Ile	Val	Met	Thr
	130					135					140				
Gln	Thr	Pro	Leu	Ser	Leu	Ser	Val	Thr	Pro	Gly	Gln	Pro	Ala	Ser	Ile
145					150					155					160
Ser	Cys	Arg	Ser	Ser	Gln	Ser	Ile	Val	His	Ser	Asn	Gly	Asn	Thr	Tyr
			165						170					175	
Leu	Glu	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln	Ser	Pro	Gln	Leu	Leu	Ile
			180					185					190		
Tyr	Lys	Val	Ser	Asn	Arg	Phe	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly
		195					200					205			
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile	Ser	Arg	Val	Glu	Ala
	210					215					220				
Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Phe	Gln	Gly	Ser	His	Val	Pro	Arg
225					230					235					240
Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys					
			245						250						

<210> 77
 <211> 251
 <212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 77

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

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

Gly Ile Trp Ile Tyr Pro Gly Asp Gly Ser Thr Gln Tyr Asn Glu Lys
50 55 60

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Ser Pro Val Thr Leu Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln Pro Pro Arg Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ala Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 78

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 78

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

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

35

40

45

Gly Ile Trp Ile Tyr Pro Gly Asp Gly Ser Thr Gln Tyr Asn Glu Lys
 50 55 60

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Val Val Met Thr
 130 135 140

Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly Gln Pro Ala Ser Ile
 145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
 165 170 175

Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Arg Leu Leu Ile
 180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
 195 200 205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
 225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 79

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 79

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

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

Gly Ile Trp Ile Tyr Pro Gly Asp Gly Ser Thr Gln Tyr Asn Glu Lys
50 55 60

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Ser Pro Val Thr Leu Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Phe Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln Pro Pro Arg Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ala Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 80
<211> 251
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 80
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
His Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met	35	40	45
Gly Trp Ile Tyr Pro Gly Asp Gly Ser Thr Gln Tyr Asn Glu Lys Phe	50	55	60
Lys Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr	65	70	75
Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys	85	90	95
Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr	100	105	110
Thr Val Thr Val Ser Ser Val Asp Ser Ser Gly Gly Gly Gly Ser Gly	115	120	125
Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr	130	135	140
Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly Gln Pro Ala Ser Ile	145	150	155
Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr	165	170	175
Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile	180	185	190
Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly	195	200	205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 81

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 81

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

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

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

Lys 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 Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 82

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic

polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 82

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

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

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

Lys 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 Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 83
<211> 251
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 83
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

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

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

Lys 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 Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Ser Pro Val Thr Leu Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Phe Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln Pro Pro Arg Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ala Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 84
<211> 251
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 84
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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 85

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 85

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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Ser Pro Val Thr Leu Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln Pro Pro Arg Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ala Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 86

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 86

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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Val Val Met Thr
130 135 140

Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Arg Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 87
<211> 251
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 87

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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Ser Pro Val Thr Leu Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Phe Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln Pro Pro Arg Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ala Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 88

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 88

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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Asp Ile Val Met Thr
130 135 140

Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly Gln Pro Ala Ser Ile
145 150 155 160

Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
165 170 175

Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
180 185 190

Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
245 250

<210> 89

<211> 251

<212> PRT

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 89
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

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

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

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

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

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

Ala Arg Gly Gly Tyr Asp Ser Arg Gly Ser Tyr Tyr Tyr Met Asp Val
100 105 110

Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser Gly Ser Ala Ser Ala
115 120 125

Pro Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Gln Ser Val
130 135 140

Leu Thr Gln Pro Pro Ser Thr Ser Gly Thr Pro Gly Gln Arg Val Thr
145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Gly Asn Ala Val Asn
165 170 175

Trp Tyr Gln His Phe Pro Gly Thr Ala Pro Thr Leu Leu Ile Tyr Ser
180 185 190

Asn Asn Gln Arg Pro Ser Gly Val Pro Glu Arg Phe Ser Gly Ser Lys
195 200 205

Ser Gly Thr Ser Ala Ser Leu Thr Val Ser Gly Leu Gln Ala Glu Asp
210 215 220

Glu Ala Asp Tyr Tyr Cys Thr Ala Trp Asp Asp Ser Leu Arg Gly Tyr
225 230 235 240

Leu Phe Gly Thr Gly Thr Lys Val Thr Val Leu
245 250

<210> 90
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
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<223> /note="anti-HLA-A2 scFv"

<400> 90
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
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 His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys 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 Arg Asp Arg Glu Glu Leu Leu Ala Leu Phe Gly Gly Met Asp Val
100 105 110

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

Pro Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Gln Pro Val
130 135 140

Leu Thr Gln Pro Ser Ser Val Ser Val Ala Pro Gly Gln Thr Ala Arg
145 150 155 160

Ile Thr Cys Gly Gly Asn Asn Ile Gly Ser Lys Ser Val His Trp Tyr
165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr Asp Asp Ser
180 185 190

Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly
195 200 205

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Arg Asp Glu Ala
210 215 220

Asp Tyr Tyr Cys His Val Trp Asp Ala Lys Thr Asn His Gln Val Phe
225 230 235 240

Gly Gly Gly Thr Arg Leu Thr Val Gln

<210> 91
 <211> 251
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>
 <221> source
 <223> /note="anti-HLA-A2 scFv"

<400> 91
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15

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

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

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

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

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

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

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

Pro Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Gln Pro Val
130 135 140

Leu Thr Gln Pro Arg Ser Val Ser Gly Ser Pro Gly Gln Ser Val Thr
145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Arg Val
165 170 175

Ser Trp Tyr Gln Gln Thr Pro Gly Thr Ala Pro Lys Leu Met Ile Tyr
180 185 190

Glu Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser
195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu
210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser Ser Thr Val
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
245 250

<210> 92

<211> 246

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 92

Gln Val Gln Leu Gln 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

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

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

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

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

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

Thr Leu Val Thr Val Ser Ser Gly Ser Ala Ser Ala Pro Lys Leu Glu
115 120 125

Glu Gly Glu Phe Ser Glu Ala Arg Val Gln Ser Val Leu Thr Gln Pro
130 135 140

Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser
145 150 155 160

Gly Ser Ser Ser Asn Ile Gly Ser Asn Gly Val Lys Trp Tyr Gln Gln
165 170 175

Leu Pro Gly Thr Ala Pro Lys Leu Val Ile Tyr Arg Asp Tyr Gln Arg
180 185 190

Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser
195 200 205

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

210

215

220

Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Val Val Phe Gly Gly Gly
 225 230 235 240

Thr Gln Leu Thr Val Leu
 245

<210> 93

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 93

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

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

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

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

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

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

Ala Arg Arg Ala Glu Arg Trp Leu His Leu Ser Gly Ala Phe Asp Ile
100 105 110

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

Pro Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Gln Pro Val
130 135 140

Leu Thr Gln Ser Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Ala
145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Val Gly Ser Asn Thr Val Asn
165 170 175

Trp Tyr Gln Gln Ser Pro Gly Thr Ala Pro Lys Leu Leu Ile Ser Ser
180 185 190

Asn His Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys
195 200 205

Phe Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp
210 215 220

Glu Ala Asp Tyr Tyr Cys Gly Ala Trp Asp Asp Ser Leu Asn Gly Tyr
225 230 235 240

Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
245 250

<210> 94

<211> 244

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 94

Gln Val Gln Leu Val Gln 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 Met Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80

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

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

Thr Val Ser Ser Gly Ser Ala Ser Ala Pro Lys Leu Glu Glu Gly Glu
115 120 125

Phe Ser Glu Ala Arg Val Gln Ala Gly Leu Thr Gln Pro Pro Ser Ala
130 135 140

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser
145 150 155 160

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly
165 170 175

Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly

180

185

190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu
 195 200 205

Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala
 210 215 220

Ala Trp Asp Asp Ser Leu Asn Gly Pro Val Phe Gly Gly Gly Thr Lys
 225 230 235 240

Leu Thr Val Leu

<210> 95

<211> 246

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 95

Gln Val Gln Leu Gln 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

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

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

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

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

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

Val Val Thr Val Ser Ser Gly Ser Ala Ser Ala Pro Lys Leu Glu Glu
115 120 125

Gly Glu Phe Ser Glu Ala Arg Val Gln Ser Ala Leu Thr Gln Pro Ala
130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly
145 150 155 160

Thr Gly Ser Asp Val Gly Gly Tyr Lys Tyr Val Ser Trp Tyr Gln His
165 170 175

His Pro Gly Lys Ala Pro Arg Leu Ile Ile Tyr Asp Val Asn Tyr Trp
180 185 190

Pro Ser Gly Val Ser His Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr
195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr
210 215 220

Tyr Cys Ser Ser Tyr Arg Thr Gly Asp Thr Trp Val Phe Gly Gly Gly
225 230 235 240

Thr Lys Leu Thr Val Leu
245

<210> 96
<211> 248

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 96
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

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

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

Gly Glu Ile Ile Pro Met Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu
50 55 60

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

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

Ala Arg Val Pro Arg Ser Ser Ser Gly Tyr Asn Tyr Gly Met Asp Val
100 105 110

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

Pro Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Asp Ile Gln
130 135 140

Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val

145 150 155 160

Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Asn Tyr Leu Ala Trp
165 170 175

Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu Ile Tyr Ala Ala
180 185 190

Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
195 200 205

Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Val
210 215 220

Ala Thr Tyr Tyr Cys Gln Lys Tyr Asn Ser Ala Pro Arg Thr Phe Gly
225 230 235 240

Gln Gly Thr Lys Val Glu Ile Lys
245

<210> 97

<211> 250

<212> PRT

<213> Artificial Sequence

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<221> source

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<223> /note="Description of Artificial Sequence: Synthetic polypeptide"
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 $\langle 220 \rangle$

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 97

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

Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Asp Ser Val Ser Thr Asn
20 25 30

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Ser Thr Asp Tyr Ala
50 55 60

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

Gln Phe Ser Leu Gln Leu Asp Ser Val Thr Pro Glu Asp Thr Ala Ile
85 90 95

Tyr Tyr Cys Ala Arg Glu Asn Trp Asn Ser Gly Gly Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Pro Ser Gly Ser Ala Ser Ala Pro
115 120 125

Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Gln Pro Val Leu
130 135 140

Thr Gln Ser Ser Ser Ala Ser Gly Ser Pro Gly Gln Ser Val Thr Ile
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu
180 185 190

Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys
195 200 205

Ser Gly Ser Thr Ala Ser Leu Thr Val Ser Gly Leu Gln Ala Glu Asp
210 215 220

Glu Ala Glu Tyr Tyr Cys Ser Ser Tyr Ala Gly Ser Asn Asn Tyr Val
225 230 235 240

Phe Gly Thr Gly Thr Lys Val Thr Val Leu
245 250

<210> 98

<211> 249

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 98

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

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

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

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

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

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

Ala Arg Ala Ala Ser Arg Trp Glu Pro Gly Asp Ala Phe Asp Ile Trp
100 105 110

Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala Ser Ala Pro

115

120

125

Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Gln Pro Val Leu
130 135 140

Thr Gln Ser Ser Ser Val Ser Val Ala Pro Gly Lys Thr Ala Arg Val
145 150 155 160

Thr Cys Gly Gly Asp Asn Ile Gly Gly Lys Ser Val His Trp Tyr Gln
165 170 175

Gln Arg Ala Gly Gln Ala Pro Val Leu Val Ile Ser His Asp Thr Asp
180 185 190

Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Lys Ser Gly Thr
195 200 205

Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Asp
210 215 220

Tyr Tyr Cys Ala Val Trp Asp Ala Ser Leu Gly Gly Ser Trp Leu Phe
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
245

<210> 99

<211> 252

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 99

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

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

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

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Ser Ala Ser Ala Pro
115 120 125

Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Gln Ala Gly Leu
130 135 140

Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile
145 150 155 160

Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Ala Tyr Asp Val His
165 170 175

Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile Phe Gly
180 185 190

Asp Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys
195 200 205

Ser Asp Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp
210 215 220

Glu Ala Asp Tyr Tyr Cys Gln Ser Phe Asp Ser Ser Leu Ser Gly Ser
225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
245 250

<210> 100

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 100

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

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

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

Ser Tyr Ile Thr Ser Gly Gly Ser Ser 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 Ala Glu Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Ala Arg Gly Leu Asp Ser Ser Ala Tyr Gln Gly Arg Ala Phe Asp Ile
100 105 110

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

Pro Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Leu Pro Val
130 135 140

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr
145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Pro Val His
165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Val Tyr Arg
180 185 190

Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys
195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp
210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Val Ser Leu Ser Gly Val
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
245 250

<210> 101

<211> 246

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 101

Gln Val Gln Leu Val Gln Ser Gly Pro 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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Ser Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu
130 135 140

Pro Val Thr Leu Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln
145 150 155 160

Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln
165 170 175

Lys Pro Gly Gln Ser Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg
180 185 190

Phe Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
195 200 205

Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr
210 215 220

Tyr Cys Phe Gln Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr
225 230 235 240

Lys Leu Glu Ile Lys Arg
245

<210> 102
<211> 246
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 102
Gln Val Gln Leu Val Gln Ser Gly Pro 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

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

Gly Trp Ile Tyr Pro Gly Asp Gly Ser Thr Gln Tyr Asn Glu Lys Phe

50

55

60

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Ser Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 115 120 125

Gly Gly Gly Gly Ser Asp Val Val Met Thr Gln Ser Pro Ser Ser Leu
 130 135 140

Ser Val Thr Leu Gly Asp Arg Val Ser Ile Ser Cys Arg Ser Ser Gln
 145 150 155 160

Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln
 165 170 175

Lys Pro Gly Gln Ser Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg
 180 185 190

Phe Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
 195 200 205

Phe Thr Leu Thr Ile Ser Arg Val Glu Pro Glu Asp Leu Gly Val Tyr
 210 215 220

Tyr Cys Phe Gln Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr
 225 230 235 240

Lys Leu Glu Ile Lys Arg
 245

<210> 103
<211> 246
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 103
Gln Val Gln Leu Val Gln Ser Gly Pro 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

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

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

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

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

Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Ser Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Asp Ile Val Met Thr Gln Ser Pro Ala Thr Leu
130 135 140

Ser Val Ser Pro Gly Glu Arg Ala Thr Ile Ser Cys Arg Ser Ser Gln
145 150 155 160

Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln
165 170 175

Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg
180 185 190

Phe Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
195 200 205

Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
210 215 220

Tyr Cys Phe Gln Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr
225 230 235 240

Lys Leu Glu Ile Lys Arg
245

<210> 104
<211> 247
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 104
Ser Gln Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly
1 5 10 15

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser

20

25

30

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

Ile Gly Trp Ile Tyr Pro Gly Asp Gly Ser Thr Gln Tyr Asn Glu Lys
 50 55 60

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

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

Cys Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110

Thr Ser Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Asp Val Val Met Thr Gln Ser Pro Ser Ser
 130 135 140

Leu Ser Val Thr Leu Gly Asp Arg Val Ser Ile Ser Cys Arg Ser Ser
 145 150 155 160

Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln
 165 170 175

Gln Lys Pro Gly Gln Ser Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn
 180 185 190

Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
 195 200 205

Asp Phe Thr Leu Thr Ile Ser Arg Val Glu Pro Glu Asp Leu Gly Val
 210 215 220

Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly
225 230 235 240

Thr Lys Leu Glu Ile Lys Arg
245

<210> 105
<211> 247
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> source
<223> /note="anti-HLA-A2 scFv"

<400> 105
Ser Gln Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly
1 5 10 15

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

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

Ile Gly Trp Ile Tyr Pro Gly Asp Gly Ser Thr Gln Tyr Asn Glu Lys
50 55 60

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

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

Cys Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Ser Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
115 120 125

Ser Gly Gly Gly Gly Ser Asp Val Val Met Thr Gln Ser Pro Ser Ser
130 135 140

Leu Ser Val Thr Leu Gly Asp Arg Val Ser Ile Ser Cys Arg Ser Ser
145 150 155 160

Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln
165 170 175

Gln Lys Pro Gly Gln Ser Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn
180 185 190

Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
195 200 205

Asp Phe Thr Leu Thr Ile Ser Arg Val Glu Pro Glu Asp Leu Gly Val
210 215 220

Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly
225 230 235 240

Thr Lys Leu Glu Ile Lys Arg
245

<210> 106

<211> 247

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 106

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

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

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

Ile Gly Trp Ile Tyr Pro Gly Asp Gly Ser Thr Gln Tyr Asn Glu Lys
50 55 60

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

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

Cys Ala Arg Glu Gly Thr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Ser Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
115 120 125

Ser Gly Gly Gly Gly Ser Asp Ile Val Met Thr Gln Ser Pro Ala Thr
130 135 140

Leu Ser Val Ser Pro Gly Glu Arg Ala Thr Ile Ser Cys Arg Ser Ser
145 150 155 160

Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln
165 170 175

Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn
180 185 190

Arg Phe Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
195 200 205

Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val
210 215 220

Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly
225 230 235 240

Thr Lys Leu Glu Ile Lys Arg
245

<210> 107

<211> 245

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>

<221> source

<223> /note="anti-HLA-A2 scFv"

<400> 107

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

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

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

Ala Phe Ile Arg Asn Asp Gly Ser Asp Lys Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Lys Asn Gly Glu Ser Gly Pro Leu Asp Tyr Trp Tyr Phe Asp Leu
100 105 110

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Gly Gly Gly Gly Ser Gly
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Val Val Met Thr Gln Ser
130 135 140

Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys
145 150 155 160

Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn Trp Tyr Gln Gln Lys
165 170 175

Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asn Leu Glu
180 185 190

Thr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
195 200 205

Thr Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr
210 215 220

Cys Gln Gln Tyr Ser Ser Phe Pro Leu Thr Phe Gly Gly Gly Thr Lys
225 230 235 240

Val Asp Ile Lys Arg
245

<210> 108

<211> 2853

<212> DNA

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>
<221> source
<223> /note="CD20-CAR (TNFR1TM-TNFR1-CD3z)-P2A-GFP"

<400> 108
atggctctgc ctgtgacagc tctgctgctg cctctggctc tgcttctgca tgccgccaga 60
ccttctcagg tgcagctggg tcagtctggc gccgagcttg tgaaacctgg cgcctctgtg 120
aagatgagct gcaaggccag cggctacacc ttcaccagct acaacatgca ctgggtcaag 180
cagacccctg gacagggact cgagtggatc ggagccatct atcccggcaa tggcgacacc 240
tcctacaacc agaagttcaa gggcaaagcc aactgaccg ccgacaagag cagcagcaca 300
gcctacatgc agctgagcag cctgaccagc gaagatagcg ccgtgtacta ctgcgctaga 360
gcccagctga ggcccaacta ctggtacttc gatgtgtggg gagccggcac caccgtgacc 420
gtgtcaaaaa tttctggcgg cggaggatct ggcgagggtg gaagcggagg cggaggaagc 480
ggtggatctt ctgacatcgt gctgtctcag agccccgcca tcctttcagc tagccctggc 540
gagaaaagtga ccatgacctg tagagccagc agcagcgtgt cctatatgca ctggtatcag 600
cagaagcccc gcagcagccc taagccttgg atctacgcca caagcaatct ggccagcggg 660
gtgcctgcca gattttcttg ctctggcagc ggcaaacgt actccctgac aatcagcaga 720
gtggaagccg aggatgccgc cacctactac tgtcagcagt ggatcagcaa ccctcctacc 780
tttggcgctg gcaccaagct ggaactgaag tctgcatggt cccatcctca gttcgagaag 840
tctggaatgc atacaacaac ccctgctcct cggcctccta caccagctcc tacaattgcc 900
agccagccac tgtctctgag gcccgaagct tgtagacctg ctgctggcgg agccgtgcat 960
acaagaggac tggatttcgc ctgcgacgtg ctgttgcccc tggtcatttt ctttggcttt 1020
tgcccttttat ccctcctctt cattgggttta atgtatcgct accaacgggtg gaagtccaag 1080
ctctactcca ttgtttgtgg gaaatcgaca cctgaaaaag aggggggagct tgaaggaact 1140
actactaagc ccctggcccc aaaccaagc ttcagtccca ctccaggctt cacccccacc 1200

ctgggcttca gtcccgtgcc cagttccacc ttcacctcca gctccaccta tcccccggt	1260
gactgtccca actttgcggc tccccgcaga gaggtggcac caccctatca gggggctgac	1320
cccatccttg cgacagccct cgcctccgac cccatcccca acccccttca gaagtgggag	1380
gacagcgccc acaagccaca gagcctagac actgatgacc ccgcgacgct gtacgccgtg	1440
gtggagaacg tgccccggtt gcgctggaag gaattcgtgc ggcgcttgg gctgagcgac	1500
cacgagatag atcggctgga gctacagaac gggcgctgcc tgcgcgaggc gcaatacagt	1560
atgctggcga cctggaggcg gcgcacgcca cggcgcgagg ccacgctgga gctgctgggt	1620
cgctgtctcc gcgacatgga cctgctgggc tgcctggagg acatcgagga ggcgctttgc	1680
ggccccgccc ccctcccgcc cgcgcccagt cttctcagaa cgcgtagagt gaagttcagc	1740
agatccgccc acgctcctgc ctatcagcag ggccaaaacc agctgtacaa cgagctgaac	1800
ctggggagaa gagaagagta cgacgtgctg gacaagcgga gaggcagaga tcctgaaatg	1860
ggcggcaagc ccagacggaa gaatcctcaa gagggcctgt ataatgagct gcagaaagac	1920
aagatggccc aggcctacag cgagatcgga atgaagggcg agcgcagaag aggcaaggga	1980
cacgatggac tgtaccaggg cctgagcacc gccaccaagg atacctatga tgccctgcac	2040
atgcaggccc tgcctccaag agctagcgga agcggagcta ctaacttcag cctgctgaag	2100
caggctggag acgtggagga gaaccctgga cctatgggtga gcaagggcga ggagctgttc	2160
accgggggtgg tgcccatcct ggtcgagctg gacggcgacg taaacggcca caagttcagc	2220
gtgtccggcg agggcgaggg cgatgccacc tacggcaagc tgaccctgaa gttcatctgc	2280
accaccggca agctgcccgt gccctggccc accctcgtga ccaccctgac ctacggcgtg	2340
cagtgttca gccgctaccc cgaccacatg aagcagcacg acttcttcaa gtccgcatg	2400
cccgaaggct acgtccagga gcgcaccatc ttcttcaagg acgacggcaa ctacaagacc	2460
cgcgccgagg tgaagtctga gggcgacacc ctggtgaacc gcatcgagct gaagggcatc	2520
gacttcaagg aggacggcaa catcctgggg cacaagctgg agtacaacta caacagccac	2580
aacgtctata tcatggccga caagcagaag aacggcatca aggtgaactt caagatccgc	2640
cacaacatcg aggacggcag cgtgcagctc gccgaccact accagcagaa ccccccatc	2700

ggcgacggcc ccgtgctgct gcccgacaac cactacctga gcacccagtc cgccctgagc 2760
aaagacccca acgagaagcg cgatcacatg gtcctgctgg agttcgtgac cgccgccggg 2820
atcactctcg gcatggacga gctgtacaag taa 2853

<210> 109
<211> 950
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<220>
<221> source
<223> /note="CD20-CAR (TNFR1TM-TNFR1-CD3z)-P2A-GFP"

<400> 109
Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu
20 25 30

Leu Val Lys Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly
35 40 45

Tyr Thr Phe Thr Ser Tyr Asn Met His Trp Val Lys Gln Thr Pro Gly
50 55 60

Gln Gly Leu Glu Trp Ile Gly Ala Ile Tyr Pro Gly Asn Gly Asp Thr
65 70 75 80

Ser Tyr Asn Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys
85 90 95

Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp
100 105 110

Ser Ala Val Tyr Tyr Cys Ala Arg Ala Gln Leu Arg Pro Asn Tyr Trp
115 120 125

Tyr Phe Asp Val Trp Gly Ala Gly Thr Thr Val Thr Val Ser Lys Ile
130 135 140

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
145 150 155 160

Gly Gly Ser Ser Asp Ile Val Leu Ser Gln Ser Pro Ala Ile Leu Ser
165 170 175

Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser
180 185 190

Val Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys
195 200 205

Pro Trp Ile Tyr Ala Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg
210 215 220

Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg
225 230 235 240

Val Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ile Ser
245 250 255

Asn Pro Pro Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Ser Ala
260 265 270

Trp Ser His Pro Gln Phe Glu Lys Ser Gly Met His Thr Thr Thr Pro
275 280 285

Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu
290 295 300

Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His

305					310					315					320
Thr	Arg	Gly	Leu	Asp 325	Phe	Ala	Cys	Asp	Val 330	Leu	Leu	Pro	Leu	Val 335	Ile
Phe	Phe	Gly	Leu 340	Cys	Leu	Leu	Ser	Leu 345	Leu	Phe	Ile	Gly	Leu 350	Met	Tyr
Arg	Tyr	Gln 355	Arg	Trp	Lys	Ser	Lys 360	Leu	Tyr	Ser	Ile	Val 365	Cys	Gly	Lys
Ser	Thr 370	Pro	Glu	Lys	Glu	Gly 375	Glu	Leu	Glu	Gly	Thr 380	Thr	Thr	Lys	Pro
Leu 385	Ala	Pro	Asn	Pro	Ser 390	Phe	Ser	Pro	Thr	Pro 395	Gly	Phe	Thr	Pro	Thr 400
Leu	Gly	Phe	Ser	Pro 405	Val	Pro	Ser	Ser	Thr 410	Phe	Thr	Ser	Ser	Ser 415	Thr
Tyr	Thr	Pro	Gly 420	Asp	Cys	Pro	Asn	Phe 425	Ala	Ala	Pro	Arg	Arg 430	Glu	Val
Ala	Pro	Pro 435	Tyr	Gln	Gly	Ala	Asp 440	Pro	Ile	Leu	Ala	Thr 445	Ala	Leu	Ala
Ser	Asp 450	Pro	Ile	Pro	Asn	Pro 455	Leu	Gln	Lys	Trp	Glu 460	Asp	Ser	Ala	His
Lys 465	Pro	Gln	Ser	Leu	Asp 470	Thr	Asp	Asp	Pro	Ala 475	Thr	Leu	Tyr	Ala	Val 480
Val	Glu	Asn	Val	Pro 485	Pro	Leu	Arg	Trp	Lys 490	Glu	Phe	Val	Arg	Arg 495	Leu
Gly	Leu	Ser	Asp 500	His	Glu	Ile	Asp	Arg 505	Leu	Glu	Leu	Gln	Asn 510	Gly	Arg

Cys Leu Arg Glu Ala Gln Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg
515 520 525

Thr Pro Arg Arg Glu Ala Thr Leu Glu Leu Leu Gly Arg Val Leu Arg
530 535 540

Asp Met Asp Leu Leu Gly Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys
545 550 555 560

Gly Pro Ala Ala Leu Pro Pro Ala Pro Ser Leu Leu Arg Thr Arg Arg
565 570 575

Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln
580 585 590

Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp
595 600 605

Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro
610 615 620

Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp
625 630 635 640

Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg
645 650 655

Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr
660 665 670

Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ala
675 680 685

Ser Gly Ser Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp
690 695 700

Val Glu Glu Asn Pro Gly Pro Met Val Ser Lys Gly Glu Glu Leu Phe

705		710		715		720
Thr Gly Val Val Pro Ile Leu Val Glu Leu Asp Gly Asp Val Asn Gly						
		725		730		735
His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly Asp Ala Thr Tyr Gly						
		740		745		750
Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly Lys Leu Pro Val Pro						
		755		760		765
Trp Pro Thr Leu Val Thr Thr Leu Thr Tyr Gly Val Gln Cys Phe Ser						
		770		775		780
Arg Tyr Pro Asp His Met Lys Gln His Asp Phe Phe Lys Ser Ala Met						
		785		790		795
						800
Pro Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe Phe Lys Asp Asp Gly						
		805		810		815
Asn Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu Gly Asp Thr Leu Val						
		820		825		830
Asn Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys Glu Asp Gly Asn Ile						
		835		840		845
Leu Gly His Lys Leu Glu Tyr Asn Tyr Asn Ser His Asn Val Tyr Ile						
		850		855		860
Met Ala Asp Lys Gln Lys Asn Gly Ile Lys Val Asn Phe Lys Ile Arg						
		865		870		875
						880
His Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr Gln Gln						
		885		890		895
Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro Asp Asn His Tyr						
		900		905		910

Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg Asp
915 920 925

His Met Val Leu Leu Glu Phe Val Thr Ala Ala Gly Ile Thr Leu Gly
930 935 940

Met Asp Glu Leu Tyr Lys
945 950

<210> 110

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>

<221> source

<223> /note="CD8 H-TNFR2 TM-TNFR2del151-3z"

<400> 110

Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
1 5 10 15

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

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Phe Ala Leu
35 40 45

Pro Val Gly Leu Ile Val Gly Val Thr Ala Leu Gly Leu Leu Ile Ile
50 55 60

Gly Val Val Asn Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu
65 70 75 80

Cys Leu Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala
85 90 95

Arg Gly Gly Ser Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala
100 105 110

Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg
115 120 125

Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu
130 135 140

Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn
145 150 155 160

Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met
165 170 175

Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly
180 185 190

Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala
195 200 205

Leu Pro Pro Arg Ala Ser
210

<210> 111

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artifical Sequence: Synthetic
peptide"

<220>

<221> source

<223> ./note="Linker"

<400> 111

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser

1 5 10 15

<210> 112
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artifical Sequence: Synthetic peptide"

<220>
<221> source
<223> ./note="Linker"

<400> 112
Gly Gly Gly Ser
1

<210> 113
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artifical Sequence: Synthetic peptide"

<220>
<221> source
<223> ./note="Linker"

<400> 113
Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
1 5 10 15

<210> 114
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artifical Sequence: Synthetic peptide"

<220>
<221> source
<223> ./note="Linker"

<400> 114
Gly Gly Gly Gly Ser
1 5

<210> 115
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artifical Sequence: Synthetic
peptide"

<220>
<221> source
<223> ./note="Linker"

<400> 115
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10

<210> 116
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artifical Sequence: Synthetic
peptide"

<220>
<221> source
<223> ./note="Linker"

<400> 116
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 117
<211> 20

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artifical Sequence: Synthetic
peptide"

<220>
<221> source
<223> ./note="Linker"

<400> 117
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser
20