

SEQUENCE LISTING

<110> Juno Therapeutics GmbH

<120> CELL SELECTION AND/OR STIMULATION
DEVICES AND METHODS OF USE

<130> 735042020040

<140> Not Yet Assigned

<141> Concurrently Herewith

<150> US 62/928,303

<151> 2019-10-30

<160> 112

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 159

<212> PRT

<213> Streptomyces avidinii

<220>

<223> Streptavidin (UniProt No. P22629)

<400> 1

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

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<210> 2
 <211> 127
 <212> PRT
 <213> Streptomyces avidinii

<220>
 <223> Minimal streptavidin

<400> 2
 Met Glu Ala Gly Ile Thr Gly Thr Trp Tyr Asn Gln Leu Gly Ser Thr
 1 5 10 15
 Phe Ile Val Thr Ala Gly Ala Asp Gly Ala Leu Thr Gly Thr Tyr Glu
 20 25 30
 Ser Ala Val Gly Asn Ala Glu Ser Arg Tyr Val Leu Thr Gly Arg Tyr
 35 40 45
 Asp Ser Ala Pro Ala Thr Asp Gly Ser Gly Thr Ala Leu Gly Trp Thr
 50 55 60
 Val Ala Trp Lys Asn Asn Tyr Arg Asn Ala His Ser Ala Thr Thr Trp
 65 70 75 80
 Ser Gly Gln Tyr Val Gly Gly Ala Glu Ala Arg Ile Asn Thr Gln Trp
 85 90 95
 Leu Leu Thr Ser Gly Thr Thr Glu Ala Asn Ala Trp Lys Ser Thr Leu
 100 105 110
 Val Gly His Asp Thr Phe Thr Lys Val Lys Pro Ser Ala Ala Ser
 115 120 125

<210> 3
 <211> 159
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Mutein Streptavidin Val44-Thr45-Ala46-Arg47

<400> 3
 Asp Pro Ser Lys Asp Ser Lys Ala Gln Val Ser Ala Ala Glu Ala Gly
 1 5 10 15
 Ile Thr Gly Thr Trp Tyr Asn Gln Leu Gly Ser Thr Phe Ile Val Thr
 20 25 30
 Ala Gly Ala Asp Gly Ala Leu Thr Gly Thr Tyr Val Thr Ala Arg Gly
 35 40 45
 Asn Ala Glu Ser Arg Tyr Val Leu Thr Gly Arg Tyr Asp Ser Ala Pro
 50 55 60
 Ala Thr Asp Gly Ser Gly Thr Ala Leu Gly Trp Thr Val Ala Trp Lys
 65 70 75 80
 Asn Asn Tyr Arg Asn Ala His Ser Ala Thr Thr Trp Ser Gly Gln Tyr
 85 90 95
 Val Gly Gly Ala Glu Ala Arg Ile Asn Thr Gln Trp Leu Leu Thr Ser

			100					105					110			
Gly	Thr	Thr	Glu	Ala	Asn	Ala	Trp	Lys	Ser	Thr	Leu	Val	Gly	His	Asp	
			115					120					125			
Thr	Phe	Thr	Lys	Val	Lys	Pro	Ser	Ala	Ala	Ser	Ile	Asp	Ala	Ala	Lys	
			130					135					140			
Lys	Ala	Gly	Val	Asn	Asn	Gly	Asn	Pro	Leu	Asp	Ala	Val	Gln	Gln		
145						150				155						

<210> 4
 <211> 127
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Mutein Streptavidin Val44-Thr45-Ala46-Arg47

Met	Glu	Ala	Gly	Ile	Thr	Gly	Thr	Trp	Tyr	Asn	Gln	Leu	Gly	Ser	Thr	
1				5				10					15			
Phe	Ile	Val	Thr	Ala	Gly	Ala	Asp	Gly	Ala	Leu	Thr	Gly	Thr	Tyr	Val	
			20					25				30				
Thr	Ala	Arg	Gly	Asn	Ala	Glu	Ser	Arg	Tyr	Val	Leu	Thr	Gly	Arg	Tyr	
		35					40				45					
Asp	Ser	Ala	Pro	Ala	Thr	Asp	Gly	Ser	Gly	Thr	Ala	Leu	Gly	Trp	Thr	
	50					55				60						
Val	Ala	Trp	Lys	Asn	Asn	Tyr	Arg	Asn	Ala	His	Ser	Ala	Thr	Thr	Trp	
65				70				75					80			
Ser	Gly	Gln	Tyr	Val	Gly	Gly	Ala	Glu	Ala	Arg	Ile	Asn	Thr	Gln	Trp	
			85					90					95			
Leu	Leu	Thr	Ser	Gly	Thr	Thr	Glu	Ala	Asn	Ala	Trp	Lys	Ser	Thr	Leu	
			100					105				110				
Val	Gly	His	Asp	Thr	Phe	Thr	Lys	Val	Lys	Pro	Ser	Ala	Ala	Ser		
		115					120					125				

<210> 5
 <211> 159
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Mutein Streptavidin Ile44-Gly45-Ala46-Arg47

Asp	Pro	Ser	Lys	Asp	Ser	Lys	Ala	Gln	Val	Ser	Ala	Ala	Glu	Ala	Gly	
1			5					10					15			
Ile	Thr	Gly	Thr	Trp	Tyr	Asn	Gln	Leu	Gly	Ser	Thr	Phe	Ile	Val	Thr	
			20					25				30				
Ala	Gly	Ala	Asp	Gly	Ala	Leu	Thr	Gly	Thr	Tyr	Ile	Gly	Ala	Arg	Gly	

<223> Streptavidin binding peptide, Strep-tag

<400> 7

Trp Arg His Pro Gln Phe Gly Gly
1 5

<210> 8

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Strep-tag II

<400> 8

Trp Ser His Pro Gln Phe Glu Lys
1 5

<210> 9

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Streptavidin Binding peptide

<220>

<221> VARIANT

<222> (3)...(3)

<223> Xaa is selected from Gln, Asp, and Met

<400> 9

His Pro Xaa
1

<210> 10

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Streptavidin-binding peptide

<400> 10

His Pro Gln Phe
1

<210> 11
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Streptavidin-binding peptide

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa is Trp, Lys or Arg

<220>
<221> VARIANT
<222> (2)...(2)
<223> Xaa is any amino acid

<220>
<221> VARIANT
<222> (3)...(3)
<223> Xaa is Gly or Glu

<220>
<221> VARIANT
<222> (4)...(4)
<223> Xaa is Gly, Lys or Arg

<400> 11
Xaa Xaa His Pro Gln Phe Xaa Xaa
1 5

<210> 12
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Streptavidin-binding peptide

<220>
<221> VARIANT
<222> (1)...(1)
<223> Xaa is any amino acid

<220>
<221> VARIANT
<222> (2)...(2)

<223> Xaa is Gly or Glu

<220>

<221> VARIANT

<222> (3)...(3)

<223> Xaa is Gly, Lys or Arg

<400> 12

Trp Xaa His Pro Gln Phe Xaa Xaa

1

5

<210> 13

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Sequential modules of streptavidin-binding peptide

<220>

<221> VARIANT

<222> (9)...(9)

<223> Xaa is any amino acid

<220>

<221> REPEAT

<222> (9)...(9)

<223> Xaa is repeated 8 or 12 times

<400> 13

Trp Ser His Pro Gln Phe Glu Lys Xaa Trp Ser His Pro Gln Phe Glu

1

5

10

15

Lys

<210> 14

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Sequential modules of streptavidin-binding peptide

<220>

<221> REPEAT

<222> (9)...(12)

<223> GlyGlyGlySer is repeated 2 or 3 times

<400> 14
 Trp Ser His Pro Gln Phe Glu Lys Gly Gly Gly Ser Trp Ser His Pro
 1 5 10 15
 Gln Phe Glu Lys
 20

<210> 15
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Twin-Strep-tag

<400> 15
 Ser Ala Trp Ser His Pro Gln Phe Glu Lys Gly Gly Gly Ser Gly Gly
 1 5 10 15
 Gly Ser Gly Gly Gly Ser Trp Ser His Pro Gln Phe Glu Lys
 20 25 30

<210> 16
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Twin-Strep-tag

<400> 16
 Ser Ala Trp Ser His Pro Gln Phe Glu Lys Gly Gly Gly Ser Gly Gly
 1 5 10 15
 Gly Ser Gly Gly Ser Ala Trp Ser His Pro Gln Phe Glu Lys
 20 25 30

<210> 17
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Twin-Strep-tag

<400> 17
 Trp Ser His Pro Gln Phe Glu Lys Gly Gly Gly Ser Gly Gly Gly Ser
 1 5 10 15
 Gly Gly Gly Ser Trp Ser His Pro Gln Phe Glu Lys
 20 25

<210> 18
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Twin-Strep-tag

<400> 18
Trp Ser His Pro Gln Phe Glu Lys Gly Gly Gly Ser Gly Gly Gly Ser
1 5 10 15
Trp Ser His Pro Gln Phe Glu Lys
20

<210> 19
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Twin-Strep-tag

<400> 19
Trp Ser His Pro Gln Phe Glu Lys Gly Gly Gly Ser Gly Gly Gly Ser
1 5 10 15
Gly Gly Ser Ala Trp Ser His Pro Gln Phe Glu Lys
20 25

<210> 20
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> HA-tag

<400> 20
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

<210> 21
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> VSV-G-tag

<400> 21

Tyr Thr Asp Ile Glu Met Asn Arg Leu Gly Lys
1 5 10

<210> 22

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> HSV-tag

<400> 22

Gln Pro Glu Leu Ala Pro Glu Asp Pro Glu Asp
1 5 10

<210> 23

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> T7 epitope

<400> 23

Ala Ser Met Thr Gly Gly Gln Gln Met Gly
1 5 10

<210> 24

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> HSV epitope

<400> 24

Gln Pro Glu Leu Ala Pro Glu Asp Pro Glu Asp
1 5 10

<210> 25

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Myc epitope

<400> 25

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10

<210> 26

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> V5-tag

<400> 26

Gly Lys Pro Ile Pro Asn Pro Leu Leu Gly Leu Asp Ser Thr
1 5 10

<210> 27

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Mutein Streptavidin Val44-Thr45-Ala46-Arg47 and
Glu117, Gly120, Tyr121 (mutein m1-9)

<400> 27

Glu Ala Gly Ile Thr Gly Thr Trp Tyr Asn Gln Leu Gly Ser Thr Phe
1 5 10 15
Ile Val Thr Ala Gly Ala Asp Gly Ala Leu Thr Gly Thr Tyr Val Thr
20 25 30
Ala Arg Gly Asn Ala Glu Ser Arg Tyr Val Leu Thr Gly Arg Tyr Asp
35 40 45
Ser Ala Pro Ala Thr Asp Gly Ser Gly Thr Ala Leu Gly Trp Thr Val
50 55 60
Ala Trp Lys Asn Asn Tyr Arg Asn Ala His Ser Ala Thr Thr Trp Ser
65 70 75 80
Gly Gln Tyr Val Gly Gly Ala Glu Ala Arg Ile Asn Thr Gln Trp Leu
85 90 95
Leu Thr Ser Gly Thr Thr Glu Glu Asn Ala Gly Tyr Ser Thr Leu Val
100 105 110
Gly His Asp Thr Phe Thr Lys Val Lys Pro Ser Ala Ala Ser
115 120 125

<210> 28
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Mutein Streptavidin Val44-Thr45-Ala46-Arg47 and
 Glu117, Gly120, Tyr121 (mutein m1-9)

<400> 28
 Asp Pro Ser Lys Asp Ser Lys Ala Gln Val Ser Ala Ala Glu Ala Gly
 1 5 10 15
 Ile Thr Gly Thr Trp Tyr Asn Gln Leu Gly Ser Thr Phe Ile Val Thr
 20 25 30
 Ala Gly Ala Asp Gly Ala Leu Thr Gly Thr Tyr Val Thr Ala Arg Gly
 35 40 45
 Asn Ala Glu Ser Arg Tyr Val Leu Thr Gly Arg Tyr Asp Ser Ala Pro
 50 55 60
 Ala Thr Asp Gly Ser Gly Thr Ala Leu Gly Trp Thr Val Ala Trp Lys
 65 70 75 80
 Asn Asn Tyr Arg Asn Ala His Ser Ala Thr Thr Trp Ser Gly Gln Tyr
 85 90 95
 Val Gly Gly Ala Glu Ala Arg Ile Asn Thr Gln Trp Leu Leu Thr Ser
 100 105 110
 Gly Thr Thr Glu Glu Asn Ala Gly Tyr Ser Thr Leu Val Gly His Asp
 115 120 125
 Thr Phe Thr Lys Val Lys Pro Ser Ala Ala Ser
 130 135

<210> 29
 <211> 253
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Variable Heavy chain of Fab fragment m13B8.2

<400> 29
 Ala Met Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro
 1 5 10 15
 Ser Gln Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr
 20 25 30
 Thr Phe Gly Val His Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Leu Gly Val Ile Trp Ala Ser Gly Ile Thr Asp Tyr Asn Val Pro
 50 55 60
 Phe Met Ser Arg Leu Ser Ile Thr Lys Asp Asn Ser Lys Ser Gln Val
 65 70 75 80

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

<210> 30

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> Variable Light chain of Fab Fragment m13B8.2

<400> 30

Ala	Met	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ala	Ser	Leu	Ser	Ala	Ser
1				5					10					15	
Val	Gly	Glu	Thr	Val	Thr	Phe	Thr	Cys	Arg	Ala	Ser	Glu	Met	Ile	Tyr
		20						25					30		
Ser	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Gln	Gly	Lys	Ser	Pro	Gln	Leu
		35				40						45			
Leu	Val	His	Asp	Ala	Lys	Thr	Leu	Ala	Glu	Gly	Val	Pro	Ser	Arg	Phe
	50					55					60				
Ser	Gly	Gly	Gly	Ser	Gly	Thr	Gln	Phe	Ser	Leu	Lys	Ile	Asn	Thr	Leu
65					70					75				80	
Gln	Pro	Glu	Asp	Phe	Gly	Thr	Tyr	Tyr	Cys	Gln	Ala	His	Tyr	Gly	Asn
			85						90					95	
Pro	Pro	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys	Arg	Gly	Ile
			100					105					110		
Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys
		115					120					125			
Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg

130		135		140	
Glu	Ala	Lys	Val	Gln	Trp
145		150		155	
Ser	Gln	Glu	Ser	Val	Thr
		165		170	
Leu	Ser	Ser	Thr	Leu	Thr
		180		185	
Val	Tyr	Ala	Cys	Glu	Val
		195		200	
Lys	Ser	Phe	Asn	Arg	Gly
210				215	

<210> 31
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Variable Heavy chain of anti-CD3 antibody OKT3

<400> 31	
Gln	Val
1	5
Ser	Val
	20
Thr	Met
	35
Gly	Tyr
	50
Lys	Asp
65	70
Met	Gln
	85
Ala	Arg
	100
Thr	Thr
	115

<210> 32
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Variable Light chain of anti-CD3 antibody OKT3

<400> 32
Gln

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

<210> 33

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Variable Heavy chain of anti-CD28 antibody CD28.3

<400> 33

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

<210> 34

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Variable Light chain of anti-CD28 antibody CD28.3

<400> 34

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

<210> 35

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> MAT tag

<400> 35

His	Asn	His	Arg	His	Lys	His	Gly	Gly	Gly	Cys
1				5					10	

<210> 36

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Variable Heavy chain of huOKT8

<400> 36

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

<210> 37
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Variable Light chain of huOKT8

<400> 37																	
Asp	Val	Gln	Ile	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly		
1				5				10						15			
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Thr	Ser	Arg	Ser	Ile	Ser	Gln	Tyr		
			20					25					30				
Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Val	Pro	Lys	Leu	Leu	Ile		
		35				40					45						
Tyr	Ser	Gly	Ser	Thr	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly		
	50				55					60							
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro		
65				70				75						80			
Glu	Asp	Val	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	His	Asn	Glu	Asn	Pro	Leu		
			85					90					95				
Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys							
			100					105									

<210> 38
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker

<220>
 <221> REPEAT
 <222> (5)...(9)
 <223> SGGGG is repeated 5 times

<400> 38									
Pro	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Pro
1				5					10

<210> 39
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker

<400> 39
Gly Ser Ala Asp Asp Ala Lys Lys Asp Ala Ala Lys Lys Asp Gly Lys
1 5 10 15
Ser

<210> 40
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> GMCSFR alpha chain

<400> 40
Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro
1 5 10 15
Ala Phe Leu Leu Ile Pro
20

<210> 41
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> GMCSFR alpha chain

<400> 41
atgcttctcc tgggtgacaag ccttctgctc tgtgagttac cacacccagc attcctcctg 60
atccca 66

<210> 42
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> CD8 alpha signal peptide

<400> 42

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15
His Ala

<210> 43

<211> 357

<212> PRT

<213> Artificial Sequence

<220>

<223> truncated epidermal growth factor receptor (tEGFR)

<400> 43

Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro
1 5 10 15
Ala Phe Leu Leu Ile Pro Arg Lys Val Cys Asn Gly Ile Gly Ile Gly
20 25 30
Glu Phe Lys Asp Ser Leu Ser Ile Asn Ala Thr Asn Ile Lys His Phe
35 40 45
Lys Asn Cys Thr Ser Ile Ser Gly Asp Leu His Ile Leu Pro Val Ala
50 55 60
Phe Arg Gly Asp Ser Phe Thr His Thr Pro Pro Leu Asp Pro Gln Glu
65 70 75 80
Leu Asp Ile Leu Lys Thr Val Lys Glu Ile Thr Gly Phe Leu Leu Ile
85 90 95
Gln Ala Trp Pro Glu Asn Arg Thr Asp Leu His Ala Phe Glu Asn Leu
100 105 110
Glu Ile Ile Arg Gly Arg Thr Lys Gln His Gly Gln Phe Ser Leu Ala
115 120 125
Val Val Ser Leu Asn Ile Thr Ser Leu Gly Leu Arg Ser Leu Lys Glu
130 135 140
Ile Ser Asp Gly Asp Val Ile Ile Ser Gly Asn Lys Asn Leu Cys Tyr
145 150 155 160
Ala Asn Thr Ile Asn Trp Lys Lys Leu Phe Gly Thr Ser Gly Gln Lys
165 170 175
Thr Lys Ile Ile Ser Asn Arg Gly Glu Asn Ser Cys Lys Ala Thr Gly
180 185 190
Gln Val Cys His Ala Leu Cys Ser Pro Glu Gly Cys Trp Gly Pro Glu
195 200 205
Pro Arg Asp Cys Val Ser Cys Arg Asn Val Ser Arg Gly Arg Glu Cys
210 215 220
Val Asp Lys Cys Asn Leu Leu Glu Gly Glu Pro Arg Glu Phe Val Glu
225 230 235 240
Asn Ser Glu Cys Ile Gln Cys His Pro Glu Cys Leu Pro Gln Ala Met
245 250 255
Asn Ile Thr Cys Thr Gly Arg Gly Pro Asp Asn Cys Ile Gln Cys Ala
260 265 270

His	Tyr	Ile	Asp	Gly	Pro	His	Cys	Val	Lys	Thr	Cys	Pro	Ala	Gly	Val
		275					280					285			
Met	Gly	Glu	Asn	Asn	Thr	Leu	Val	Trp	Lys	Tyr	Ala	Asp	Ala	Gly	His
	290					295					300				
Val	Cys	His	Leu	Cys	His	Pro	Asn	Cys	Thr	Tyr	Gly	Cys	Thr	Gly	Pro
305					310					315					320
Gly	Leu	Glu	Gly	Cys	Pro	Thr	Asn	Gly	Pro	Lys	Ile	Pro	Ser	Ile	Ala
			325					330						335	
Thr	Gly	Met	Val	Gly	Ala	Leu	Leu	Leu	Leu	Val	Val	Ala	Leu	Gly	
		340					345					350			
Ile	Gly	Leu	Phe	Met											
		355													

<210> 44

<211> 335

<212> PRT

<213> Artificial Sequence

<220>

<223> truncated epidermal growth factor receptor (tEGFR)

<400> 44

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

210		215		220
Cys His Pro Glu Cys	Leu Pro Gln Ala Met Asn Ile Thr Cys Thr Gly			
225	230	235		240
Arg Gly Pro Asp Asn Cys	Ile Gln Cys Ala His Tyr Ile Asp Gly Pro			
	245	250		255
His Cys Val Lys Thr Cys	Pro Ala Gly Val Met Gly Glu Asn Asn Thr			
	260	265		270
Leu Val Trp Lys Tyr Ala	Asp Ala Gly His Val Cys His Leu Cys His			
	275	280		285
Pro Asn Cys Thr Tyr Gly	Cys Thr Gly Pro Gly Leu Glu Gly Cys Pro			
	290	295		300
Thr Asn Gly Pro Lys Ile	Pro Ser Ile Ala Thr Gly Met Val Gly Ala			
305	310	315		320
Leu Leu Leu Leu Leu	Val Val Ala Leu Gly Ile Gly Leu Phe Met			
	325	330		335

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

<220>
 <223> F2A

<400> 45
Val Lys Gln Thr Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val
1 5 10 15
Glu Ser Asn Pro Gly Pro
20

<210> 46
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> E2A

<400> 46
Gln Cys Thr Asn Tyr Ala Leu Leu Lys Leu Ala Gly Asp Val Glu Ser
1 5 10 15
Asn Pro Gly Pro
20

<210> 47
 <211> 24
 <212> PRT

<213> Artificial Sequence

<220>

<223> T2A

<400> 47

Leu Glu Gly Gly Gly Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp
1 5 10 15
Val Glu Glu Asn Pro Gly Pro Arg
20

<210> 48

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> T2A

<400> 48

Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15
Gly Pro

<210> 49

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> P2A

<400> 49

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> 50

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> P2A

<400> 50

Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15
Pro Gly Pro

<210> 51

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR H1

<400> 51

Asp Tyr Gly Val Ser
1 5

<210> 52

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR H2

<400> 52

Val Ile Trp Gly Ser Glu Thr Thr Tyr Tyr Asn Ser Ala Leu Lys Ser
1 5 10 15

<210> 53

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR H3

<400> 53

Tyr Ala Met Asp Tyr Trp Gly
1 5

<210> 54

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR H3

<400> 54

His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr
1 5 10

<210> 55

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR L1

<400> 55

Arg Ala Ser Gln Asp Ile Ser Lys Tyr Leu Asn
1 5 10

<210> 56

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR L2

<400> 56

Ser Arg Leu His Ser Gly Val
1 5

<210> 57

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR L2

<400> 57

His Thr Ser Arg Leu His Ser
1 5

<210> 58

<211> 9

<212> PRT
<213> Artificial Sequence

<220>
<223> CDR L3

<400> 58
Gly Asn Thr Leu Pro Tyr Thr Phe Gly
1 5

<210> 59
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR L3

<400> 59
Gln Gln Gly Asn Thr Leu Pro Tyr Thr
1 5

<210> 60
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> VH

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

<210> 61
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VL

<400> 61
 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
 100 105

<210> 62
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker

<400> 62
 Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr
 1 5 10 15
 Lys Gly

<210> 63
 <211> 735
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> scFv

<400> 63

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gacatccaga tgacccagac cacctccagc ctgagcgcca gcctgggcga ccgggtgacc 60
atcagctgcc gggccagcca ggacatcagc aagtacctga actggtatca gcagaagccc 120
gacggcaccg tcaagctgct gatctaccac accagccggc tgcacagcgg cgtgcccagc 180
cggttttagcg gcagcggctc cggcaccgac tacagcctga ccatctccaa cctggaacag 240
gaagatatcg ccacctactt ttgccagcag ggcaacacac tgccctacac ctttggcggc 300
ggaacaaagc tggaaatcac cggcagcacc tccggcagcg gcaagcctgg cagcggcgag 360
ggcagcacca agggcgaggt gaagctgcag gaaagcggcc ctggcctggt ggcccccagc 420
cagagcctga gcgtgacctg caccgtgagc ggcgtagacc tgcccacta cggcgtgagc 480
tggatccggc agccccccag gaagggcctg gaatggctgg gcgtgatctg gggcagcgag 540
accacctact acaacagcgc cctgaagagc cggctgacca tcatcaagga caacagcaag 600
agccaggtgt tcctgaagat gaacagcctg cagaccgacg acaccgccat ctactactgc 660
gccaaagcact actactacgg cggcagctac gccatggact actggggcca gggcaccagc 720
gtgaccgtga gcagc 735

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<210> 64

<211> 245

<212> PRT

<213> Artificial Sequence

<220>

<223> scFv

<400> 64

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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

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210		215		220
Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser				
225		230		235
Val Thr Val Ser Ser				240
		245		

<210> 65
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR H1

<400> 65
 Ser Tyr Trp Met Asn
 1 5

<210> 66
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR H2

<400> 66
 Gln Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe Lys
 1 5 10 15
 Gly

<210> 67
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR H3

<400> 67
 Lys Thr Ile Ser Ser Val Val Asp Phe Tyr Phe Asp Tyr
 1 5 10

<210> 68
 <211> 9

<212> PRT
<213> Artificial Sequence

<220>
<223> CDR L3

<400> 68
Gln Gln Tyr Asn Arg Tyr Pro Tyr Thr
1 5

<210> 69
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR H1

<400> 69
Ser Tyr Trp Met Asn
1 5

<210> 70
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR H2

<400> 70
Gln Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe Lys
1 5 10 15
Gly

<210> 71
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> VH

<400> 71
Glu Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Ser
1 5 10 15

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

<210> 72
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VL

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

<210> 73
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR L1

<400> 73

Lys Ala Ser Gln Asn Val Gly Thr Asn Val Ala
1 5 10

<210> 74
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR L2

<400> 74
Ser Ala Thr Tyr Arg Asn Ser
1 5

<210> 75
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR L3

<400> 75
Gln Gln Tyr Asn Arg Tyr Pro Tyr Thr
1 5

<210> 76
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR H1

<400> 76
Ser Tyr Trp Met Asn
1 5

<210> 77
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR H2

<400> 77

Gln Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe Lys
1 5 10 15
Gly

<210> 78

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR H3

<400> 78

Lys Thr Ile Ser Ser Val Val Asp Phe Tyr Phe Asp Tyr
1 5 10

<210> 79

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 79

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 80

<211> 245

<212> PRT

<213> Artificial Sequence

<220>

<223> scFv

<400> 80

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

50		55		60											
Lys	Gly	Gln	Ala	Thr	Leu	Thr	Ala	Asp	Lys	Ser	Ser	Ser	Thr	Ala	Tyr
65					70				75						80
Met	Gln	Leu	Ser	Gly	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Phe	Cys
				85					90						95
Ala	Arg	Lys	Thr	Ile	Ser	Ser	Val	Val	Asp	Phe	Tyr	Phe	Asp	Tyr	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Gly
		115					120					125			
Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Asp	Ile	Glu	Leu	Thr	Gln	Ser
	130				135					140					
Pro	Lys	Phe	Met	Ser	Thr	Ser	Val	Gly	Asp	Arg	Val	Ser	Val	Thr	Cys
145					150					155					160
Lys	Ala	Ser	Gln	Asn	Val	Gly	Thr	Asn	Val	Ala	Trp	Tyr	Gln	Gln	Lys
			165					170							175
Pro	Gly	Gln	Ser	Pro	Lys	Pro	Leu	Ile	Tyr	Ser	Ala	Thr	Tyr	Arg	Asn
			180					185					190		
Ser	Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe
		195					200					205			
Thr	Leu	Thr	Ile	Thr	Asn	Val	Gln	Ser	Lys	Asp	Leu	Ala	Asp	Tyr	Phe
	210				215					220					
Cys	Gln	Gln	Tyr	Asn	Arg	Tyr	Pro	Tyr	Thr	Ser	Gly	Gly	Gly	Thr	Lys
225					230					235					240
Leu	Glu	Ile	Lys	Arg											
				245											

<210> 81
 <211> 12
 <212> PRT
 <213> Homo sapiens

<220>
 <223> spacer (IgG4hinge)

<400> 81
 Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro
 1 5 10

<210> 82
 <211> 36
 <212> DNA
 <213> Homo sapiens

<220>
 <223> spacer (IgG4hinge)

<400> 82
 gaatctaagt acggaccgcc ctgccccct tgcct

<210> 83
 <211> 119
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Hinge-CH3 spacer

<400> 83
 Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Gly Gln Pro Arg
 1 5 10 15
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
 20 25 30
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 35 40 45
 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 50 55 60
 Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 65 70 75 80
 Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
 85 90 95
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 100 105 110
 Leu Ser Leu Ser Leu Gly Lys
 115

<210> 84
 <211> 229
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Hinge-CH2-CH3 spacer

<400> 84
 Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe
 1 5 10 15
 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 20 25 30
 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
 35 40 45
 Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val
 50 55 60
 Glu 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													
225																	

<210> 85

<211> 282

<212> PRT

<213> Homo sapiens

<220>

<223> IgD-hinge-Fc

<400> 85

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> 86
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary IgG Hinge

<400> 86
 Glu Val Val Val Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro
 1 5 10

<210> 87
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary IgG Hinge

<220>
 <221> VARIANT
 <222> (1)...(1)
 <223> Xaa is glycine, cysteine or arginine

<220>
 <221> VARIANT
 <222> (2)...(2)
 <223> Xaa is cysteine or threonine

<400> 87
 Xaa Pro Pro Xaa Pro
 1 5

<210> 88
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary IgG Hinge

<400> 88
Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
1 5 10 15

<210> 89
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary IgG Hinge

<400> 89
Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro
1 5 10

<210> 90
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary IgG Hinge

<400> 90
Glu Leu Lys Thr Pro Leu Gly Asp Thr His Thr Cys Pro Arg Cys Pro
1 5 10 15
Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro Glu
20 25 30
Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro Glu Pro
35 40 45
Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro
50 55 60

<210> 91
<211> 12
<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary IgG Hinge

<400> 91

Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Ser	Cys	Pro
1				5					10		

<210> 92

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary IgG Hinge

<400> 92

Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro
1				5					10		

<210> 93

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary IgG Hinge

<400> 93

Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro
1				5				

<210> 94

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary IgG Hinge

<400> 94

Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro
1				5				10	

<210> 95

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

<220>
 <223> CD28 (amino acids 153-179 of Accession No. P10747)

<400> 95
 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> 96
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <223> CD28 (amino acids 114-179 of Accession No. P10747)

<400> 96
 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 Phe Trp Val Leu Val Val Val Gly Gly
 35 40 45
 Val Leu Ala Cys Tyr Ser Leu Leu Val Thr Val Ala Phe Ile Ile Phe
 50 55 60
 Trp Val
 65

<210> 97
 <211> 41
 <212> PRT
 <213> Homo sapiens

<220>
 <223> CD28 (amino acids 180-220 of P10747)

<400> 97
 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> 98
 <211> 41
 <212> PRT
 <213> Homo sapiens

<220>
 <223> CD28 (LL to GG)

<400> 98
 Arg Ser Lys Arg Ser Arg Gly Gly 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> 99
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <223> 4-1BB (amino acids 214-255 of Q07011.1)

<400> 99
 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> 100
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <223> CD3 zeta

<400> 100
 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> 101
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <223> CD3 zeta

Arg	Val	Lys	Phe	Ser	Arg	Ser	Ala	Glu	Pro	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> 102
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <223> CD3 zeta

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> 103
 <211> 126
 <212> PRT
 <213> Streptomyces avidinii

<220>
 <223> Minimal streptavidin without initial methionine

Glu	Ala	Gly	Ile	Thr	Gly	Thr	Trp	Tyr	Asn	Gln	Leu	Gly	Ser	Thr	Phe		
1				5				10						15			
Ile	Val	Thr	Ala	Gly	Ala	Asp	Gly	Ala	Leu	Thr	Gly	Thr	Tyr	Glu	Ser		
			20				25						30				
Ala	Val	Gly	Asn	Ala	Glu	Ser	Arg	Tyr	Val	Leu	Thr	Gly	Arg	Tyr	Asp		
		35					40					45					
Ser	Ala	Pro	Ala	Thr	Asp	Gly	Ser	Gly	Thr	Ala	Leu	Gly	Trp	Thr	Val		
		50				55					60						
Ala	Trp	Lys	Asn	Asn	Tyr	Arg	Asn	Ala	His	Ser	Ala	Thr	Thr	Trp	Ser		
65				70					75					80			
Gly	Gln	Tyr	Val	Gly	Gly	Ala	Glu	Ala	Arg	Ile	Asn	Thr	Gln	Trp	Leu		
				85				90						95			
Leu	Thr	Ser	Gly	Thr	Thr	Glu	Ala	Asn	Ala	Trp	Lys	Ser	Thr	Leu	Val		
			100					105					110				
Gly	His	Asp	Thr	Phe	Thr	Lys	Val	Lys	Pro	Ser	Ala	Ala	Ser				
		115					120					125					

<210> 104
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Mutein Streptavidin Val44-Thr45-Ala46-Arg47
 without initial methionine

Glu	Ala	Gly	Ile	Thr	Gly	Thr	Trp	Tyr	Asn	Gln	Leu	Gly	Ser	Thr	Phe		
1				5				10						15			

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

<210> 105

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Mutein Streptavidin Ile44-Gly45-Ala-46-Arg47
without initial methionine

<400> 105

Glu	Ala	Gly	Ile	Thr	Gly	Thr	Trp	Tyr	Asn	Gln	Leu	Gly	Ser	Thr	Phe
1				5				10						15	
Ile	Val	Thr	Ala	Gly	Ala	Asp	Gly	Ala	Leu	Thr	Gly	Thr	Tyr	Ile	Gly
			20					25					30		
Ala	Arg	Gly	Asn	Ala	Glu	Ser	Arg	Tyr	Val	Leu	Thr	Gly	Arg	Tyr	Asp
		35					40					45			
Ser	Ala	Pro	Ala	Thr	Asp	Gly	Ser	Gly	Thr	Ala	Leu	Gly	Trp	Thr	Val
		50				55					60				
Ala	Trp	Lys	Asn	Asn	Tyr	Arg	Asn	Ala	His	Ser	Ala	Thr	Thr	Trp	Ser
65					70				75					80	
Gly	Gln	Tyr	Val	Gly	Gly	Ala	Glu	Ala	Arg	Ile	Asn	Thr	Gln	Trp	Leu
			85						90				95		
Leu	Thr	Ser	Gly	Thr	Thr	Glu	Ala	Asn	Ala	Trp	Lys	Ser	Thr	Leu	Val
			100					105					110		
Gly	His	Asp	Thr	Phe	Thr	Lys	Val	Lys	Pro	Ser	Ala	Ala	Ser		
		115					120					125			

<210> 106

<211> 326

<212> PRT

<213> Homo sapiens

<220>

<223> Human IgG2 Fc (Uniprot P01859)

<400> 106

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Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
 1          5          10          15
Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
 20          25          30
Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35          40          45
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
 50          55          60
Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr
 65          70          75          80
Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85          90          95
Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
100          105          110
Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
115          120          125
Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
130          135          140
Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly
145          150          155          160
Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn
165          170          175
Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
180          185          190
Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro
195          200          205
Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu
210          215          220
Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
225          230          235          240
Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
245          250          255
Ser Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
260          265          270
Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
275          280          285
Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
290          295          300
Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
305          310          315          320
Ser Leu Ser Pro Gly Lys
325
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<210> 107

<211> 327

<212> PRT

<213> Homo sapiens

<220>

<223> Human IgG4 Fc (Uniprot P01861)

<400> 107

Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Cys	Ser	Arg
1				5				10					15		
Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr
			20					25					30		
Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser
		35					40					45			
Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser
	50					55					60				
Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Lys	Thr
65					70				75					80	
Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys
			85					90						95	
Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Ser	Cys	Pro	Ala	Pro
		100						105					110		
Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
	115						120					125			
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
	130					135					140				
Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp
145					150				155					160	
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe
				165					170					175	
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
	180							185					190		
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu
	195						200					205			
Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
	210					215					220				
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys
225					230					235				240	
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
			245						250					255	
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
		260						265					270		
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
		275					280					285			
Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser
	290				295						300				
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
305					310				315						320
Leu	Ser	Leu	Ser	Leu	Gly	Lys									
				325											

<210> 108
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FKBP

<400> 108
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15
 Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30
 Gly Lys Lys Met Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45
 Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60
 Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80
 Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95
 Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 109
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FKBP12v36

<400> 109
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15
 Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30
 Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45
 Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60
 Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80
 Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95
 Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 110
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified acylation motif

<400> 110
Met Gly Ser Asn Lys Ser Lys Pro Lys Asp Ala Ser Gln Arg Arg Arg
1 5 10 15

<210> 111
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> dual acylation motif

<220>
<221> VARIANT
<222> (4)...(4)
<223> Xaa is any amino acid

<400> 111
Met Gly Cys Xaa Cys
1 5

<210> 112
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> acylation region

<220>
<221> VARIANT
<222> (4)...(4)
<223> Xaa is any amino acid

<400> 112
Cys Ala Ala Xaa
1