

eolf-othd-000005
SEQUENCE LISTING

<110> PsiOxus Therapeutics Limited

<120> Adenovirus armed with bispecific T cell engager (BiTE)

<130> P000192_W0

<150> GB1614607.8

<151> 2016-08-29

<160> 298

<170> PatentIn version 3.5

<210> 1

<211> 1578

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-EpCAM BiTE DNA coding sequence, with N-terminal signal sequence and C-terminal deca-His affinity tag

<400> 1

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tcgtgcaagt cctcgcaaag cctgcttaac agcggcaacc agaaaaacta cctcacgtgg	180
tatcagcaaa agccagggtca acccccaaaa ctgctcatct actgggcgag caccgcgag	240
tcgggggtgc cagaccggtt caccggctcc gggtcaggaa ctgatttcac cctaaccatc	300
agctcgggtc aagcggagga cctggccgtg tactactgcc aaaatgatta ctgtaccct	360
ctgacctttg gagcgggcac caagctcgaa atcaagggcg gtggagggaag cggcggggga	420
ggctcagggtg ggggaggatc agaagtccaa ctgctggagc agtcaggagc cgaactggtc	480
cgccgggaa cctccgtcaa gatttcctgt aaggcttccg gctacgcttt taccaattac	540
tggctgggct ggggtcaagca aagaccgggg catggcctgg agtggatcgg cgacatcttc	600
ccagggagcg gcaacatcca ctacaacgag aagttcaagg ggaaagcgac tctgactgcc	660
gacaaatcat ccagcaccgc ctacatgcag ctgtcgtcgc tcactttcga agacagcgcg	720

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gtgtactttt gtgctcggct ccggaactgg gatgaaccaa tggactactg gggacaagga	780
actaccgtga ccgtctcctc cggcggcggg ggaagcgatg tgcaactcgt gcagtccggg	840
gcggaagtga aaaagccggg cgcgagcgtc aaagtgtcat gcaaggcgtc aggatatacg	900
tttactagat acactatgca ctgggtgctc caggcacctg gtcagggcct tgaatggatc	960
ggctacatca atccgtcgag aggctacact aattacgcgg actcagtcaa agggcgcttc	1020
acgattacga ccgacaagtc cacctcgact gcatacatgg aactgtcctc gctgagaagc	1080
gaggacaccg ctacttacta ctgcgctaga tactacgatg atcactactg cctcgattac	1140
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tcgctgtccc caggagaaaag agcgaccctg tcatgccggg cgtcgcaaag cgtgagctat	1320
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ctgaccatca attcactgga agcagaagat gcggccacct actactgtca gcagtgggtcc	1500
tccaaccgc tgactttcgg aggcggaact aaggtcgaga tcaagcatca ccatcaccat	1560
caccaccatc accattag	1578

<210> 2

<211> 525

<212> PRT

<213> Artificial Sequence

<220>

<223> Anti-EpCAM BiTE protein sequence, with N-terminal signal sequence
and C-terminal deca-His affinity tag

<400> 2

Met	Gly	Trp	Ser	Cys	Ile	Ile	Leu	Phe	Leu	Val	Ala	Thr	Ala	Thr	Gly
1				5				10						15	

Val	His	Ser	Glu	Leu	Val	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Thr	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Thr Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu
 35 40 45

Leu Asn Ser Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys
 50 55 60

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu
 65 70 75 80

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
 85 90 95

Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr
 100 105 110

Cys Gln Asn Asp Tyr Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys
 115 120 125

Leu Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 130 135 140

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

Arg Pro Gly Thr Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala
 165 170 175

Phe Thr Asn Tyr Trp Leu Gly Trp Val Lys Gln Arg Pro Gly His Gly
 180 185 190

Leu Glu Trp Ile Gly Asp Ile Phe Pro Gly Ser Gly Asn Ile His Tyr
 195 200 205

Asn Glu Lys Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser

210

215

220

Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Phe Glu Asp Ser Ala
 225 230 235 240

Val Tyr Phe Cys Ala Arg Leu Arg Asn Trp Asp Glu Pro Met Asp Tyr
 245 250 255

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser
 260 265 270

Asp Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 275 280 285

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg Tyr
 290 295 300

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 305 310 315 320

Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Ala Asp Ser Val
 325 330 335

Lys Gly Arg Phe Thr Ile Thr Thr Asp Lys Ser Thr Ser Thr Ala Tyr
 340 345 350

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys
 355 360 365

Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln Gly
 370 375 380

Thr Thr Val Thr Val Ser Ser Gly Glu Gly Thr Ser Thr Gly Ser Gly
 385 390 395 400

Gly Ser Gly Gly Ser Gly Gly Ala Asp Asp Ile Val Leu Thr Gln Ser

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405

410

415

Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
420 425 430

Arg Ala Ser Gln Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro
435 440 445

Gly Lys Ala Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Val Ala Ser
450 455 460

Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser
465 470 475 480

Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys
485 490 495

Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe Gly Gly Gly Thr Lys Val
500 505 510

Glu Ile Lys His His His His His His His His His His
515 520 525

<210> 3
<211> 1590
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-FAP BiTE DNA coding sequence, with N-terminal signal
sequence and C-terminal deca-His affinity tag

<400> 3
atgggctgga gctgcatcat cttgttcctg gtcgcaactg ctaccggagt ccattcggac 60
atcgtcatga cccaaagccc tgactcgctc gctgtgtcac tgggagagcg ggcgactatc 120
aactgcaa at catcccagag cctgctgtat tcacgcaatc agaaaaacta cctggcctgg 180
tatcagcaga agccgggccca gcctcccaag ctgctgatct tctgggcctc caccgcgaa 240

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agcggcgtgc cggaccgctt cagcgggaagc ggattcggaa ctgactttac tctgaccatt	300
agctccttgc aggcggagga cgtggccgctc tactactgcc agcagtatctt ctcctatccg	360
ctcacctttg ggcaaggcac caaggtggag attaagggag ggggcggcag cgggggaggc	420
ggcagcggcg gcgggggatc gcaggtccag ctcgtccaat ccggagccga agtcaagaag	480
ccgggagcgt cgggtcaaggt cagctgcaaa acttcgcgct acaccttcac tgagtacacg	540
atccactggg tccgccaggc gcccggccag cggctggagt ggatcggcgg gatcaaccca	600
aacaacggaa tcccaaatta caatcagaaa tttaaagggc gggtgactat caccgtggat	660
acctcggcct ccacggcgta catggagctc tcatcactca gatcggagga caccgcggtc	720
tattactgcg cccgccgccc gatcgcttat ggatacgatg aaggacatgc gatggattac	780
tggggccagg gcaccctcgt cacggtgtcg tcaggaggcg gcggttcaga tgtgcaactc	840
gtgcagtccg gtgcggaagt gaaaaagccg ggcgcgagcg tcaaagtgtc atgcaaggcg	900
tcaggatata cgtttactag atacactatg cactgggtgc gccaggcacc tggtcagggc	960
cttgaatgga tcggctacat caatccgtcg agaggctaca ctaattacgc ggactcagtc	1020
aaaggcgct tcacgattac gaccgacaag tccacctcga ctgcatacat ggaactgtcc	1080
tcgctgagaa gcgaggacac cgctacttac tactgcgcta gatactacga tgatcactac	1140
tgccctgatt actggggcca gggaaccact gtcacggtgt catcgggaga gggcacctca	1200
accggatcag ggggatcggg aggctcgggc ggcgagacg acatcgtcct gaccagtcg	1260
cccgccacct tgtcgtgtc cccaggagaa agagcgaccc tgtcatgccg ggcgtcgcaa	1320
agcgtgagct atatgaattg gtatcagcag aagccaggaa aggcgccgaa gagatggatc	1380
tacgacacct ccaaggctgc ttcagggtgtc ccggctagat tctcaggatc gggatcagga	1440
acggactact ccctgaccat caattcactg gaagcagaag atgcggccac ctactactgt	1500
cagcagtggc cctccaaccc gctgactttc ggaggcggaa ctaaggctga gatcaagcat	1560
caccatcacc atcaccacca tcaccattag	1590

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<210> 4

<211> 529

<212> PRT

<213> Artificial Sequence

<220>

<223> Anti-FAP BiTE amino acid sequence, with N-terminal signal sequence and C-terminal deca-His affinity tag

<400> 4

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val
20 25 30

Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu
35 40 45

Leu Tyr Ser Arg Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
50 55 60

Pro Gly Gln Pro Pro Lys Leu Leu Ile Phe Trp Ala Ser Thr Arg Glu
65 70 75 80

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Phe Gly Thr Asp Phe
85 90 95

Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr
100 105 110

Cys Gln Gln Tyr Phe Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys
115 120 125

Val Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
130 135 140

Gly Gly Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys

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145		150		155		160									
Pro	Gly	Ala	Ser	Val	Lys	Val	Ser	Cys	Lys	Thr	Ser	Arg	Tyr	Thr	Phe
				165					170					175	
Thr	Glu	Tyr	Thr	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Arg	Leu
			180					185					190		
Glu	Trp	Ile	Gly	Gly	Ile	Asn	Pro	Asn	Asn	Gly	Ile	Pro	Asn	Tyr	Asn
		195					200					205			
Gln	Lys	Phe	Lys	Gly	Arg	Val	Thr	Ile	Thr	Val	Asp	Thr	Ser	Ala	Ser
	210					215					220				
Thr	Ala	Tyr	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val
225					230					235					240
Tyr	Tyr	Cys	Ala	Arg	Arg	Arg	Ile	Ala	Tyr	Gly	Tyr	Asp	Glu	Gly	His
				245					250					255	
Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly
			260					265					270		
Gly	Gly	Gly	Ser	Asp	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys
		275					280					285			
Lys	Pro	Gly	Ala	Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr
	290					295					300				
Phe	Thr	Arg	Tyr	Thr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly
305					310					315					320
Leu	Glu	Trp	Ile	Gly	Tyr	Ile	Asn	Pro	Ser	Arg	Gly	Tyr	Thr	Asn	Tyr
				325					330					335	
Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Thr	Thr	Asp	Lys	Ser	Thr

340

345

350

Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala
 355 360 365

Thr Tyr Tyr Cys Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr
 370 375 380

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Glu Gly Thr Ser
 385 390 395 400

Thr Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ala Asp Asp Ile Val
 405 410 415

Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala
 420 425 430

Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Tyr Met Asn Trp Tyr
 435 440 445

Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Trp Ile Tyr Asp Thr Ser
 450 455 460

Lys Val Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly
 465 470 475 480

Thr Asp Tyr Ser Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala
 485 490 495

Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe Gly Gly
 500 505 510

Gly Thr Lys Val Glu Ile Lys His His His His His His His His His
 515 520 525

His

<210> 5
 <211> 1629
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Control (Anti-FHA) BiTE DNA coding sequence, with N-terminal signal sequence and C-terminal deca-His affinity tag

<400> 5
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 ctggacatcg tgatgacca ggcacctgca tctctggcag tgagcctggg acagagagcc 120
 accatttcat gccggggccag caagagcgtg tcgtcatccg gatacaatta tctgcactgg 180
 tatcagcaga aaccaggaca acctccaaag ctactcatct acctggcgtc gaacctcgaa 240
 tcgggcgtcc cagctagatt ctcaaggagc ggttcgggaa ccgatttcac cctgaacatc 300
 caccctgtgg aggaggaaga cgcggaacg tactattgcc agcattcccg cgagttccct 360
 ctacttttcg gtgcgggaac taagctggag atcaagtcca gcggcggcgg aggttagcggg 420
 ggagggtggcg gaggaagctc ccggtcgtcg ctggagggtgc agctgcaaca atccggccccg 480
 gaactggtca agccaggcgc atccgtcaag atttcatgca agacctcggg gtacaccttc 540
 accgggtaca cgatgcattg ggtcaggcag agccacggca agtccctgga atggatcgga 600
 ggaatcaacc ccaaaaacgg cggcacatc tacaaccaa agttccaggg aaaagccact 660
 ctgaccgtgg acaagtcgtc gagcacggcc agcatggagc tgcggtcctt cacttccgac 720
 gactcagccg tgtattactg cgcgagacgg gtctacgatg actaccata ctactacgct 780
 atggactact ggggacaagg aaccagcgtg accgtctcat cggcgaaaac tactccgccg 840
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 aagaagccag gagcctccgt gaaggtctcg tgcaaagcca gcggctacac ttttactagg 960
 tacactatgc actgggtgcg gcaagcgccg ggacaaggtc tggagtggat cggatacatc 1020
 aatccgtcgc ggggatacac taattacgcg gactccgtca agggacgggtt tactatcact 1080

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acggataagt ccactagcac cgcctacatg gaactgtcct cgctgcggtc ggaagacact 1140
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 ccaggagaga gagcgactct ttcatgcagg gcttcccaat cagtctccta catgaattgg 1380
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 aatagcctgg aggccgagga cgctgcaact tactactgcc agcagtggtc ctccaaccct 1560
 ctcaccttcg gaggcgggac caaggtggaa atcaaacatc accatcacca tcaccaccat 1620
 caccattag 1629

<210> 6
 <211> 542
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Control (Anti-FHA) BiTE amino acid sequence with N-terminal
 signal sequence and C-terminal deca-His affinity tag

<400> 6

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
 1 5 10 15

Val His Ser Glu Leu Asp Ile Val Met Thr Gln Ala Pro Ala Ser Leu
 20 25 30

Ala Val Ser Leu Gly Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys
 35 40 45

Ser Val Ser Ser Ser Gly Tyr Asn Tyr Leu His Trp Tyr Gln Gln Lys
 50 55 60

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Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu
65 70 75 80

Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr
100 105 110

Cys Gln His Ser Arg Glu Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys
115 120 125

Leu Glu Ile Lys Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly
130 135 140

Gly Ser Ser Arg Ser Ser Leu Glu Val Gln Leu Gln Gln Ser Gly Pro
145 150 155 160

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

Gly Tyr Thr Phe Thr Gly Tyr Thr Met His Trp Val Arg Gln Ser His
180 185 190

Gly Lys Ser Leu Glu Trp Ile Gly Gly Ile Asn Pro Lys Asn Gly Gly
195 200 205

Ile Ile Tyr Asn Gln Lys Phe Gln Gly Lys Ala Thr Leu Thr Val Asp
210 215 220

Lys Ser Ser Ser Thr Ala Ser Met Glu Leu Arg Ser Leu Thr Ser Asp
225 230 235 240

Asp Ser Ala Val Tyr Tyr Cys Ala Arg Arg Val Tyr Asp Asp Tyr Pro
245 250 255

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Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val
260 265 270

Ser Ser Ala Lys Thr Thr Pro Pro Ser Val Thr Ser Gly Gly Gly Gly
275 280 285

Ser Asp Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
290 295 300

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg
305 310 315 320

Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
325 330 335

Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Ala Asp Ser
340 345 350

Val Lys Gly Arg Phe Thr Ile Thr Thr Asp Lys Ser Thr Ser Thr Ala
355 360 365

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr
370 375 380

Cys Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln
385 390 395 400

Gly Thr Thr Val Thr Val Ser Ser Gly Glu Gly Thr Ser Thr Gly Ser
405 410 415

Gly Gly Ser Gly Gly Ser Gly Gly Ala Asp Asp Ile Val Leu Thr Gln
420 425 430

Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser
435 440 445

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Cys Arg Ala Ser Gln Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys
450 455 460

Pro Gly Lys Ala Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Val Ala
465 470 475 480

Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr
485 490 495

Ser Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr
500 505 510

Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe Gly Gly Gly Thr Lys
515 520 525

Val Glu Ile Lys His His His His His His His His His His
530 535 540

<210> 7
<211> 243
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-CD3 ScFv amino acid sequence

<400> 7

Asp 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 Arg Tyr
20 25 30

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

Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Ala Asp Ser Val

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50

55

60

Lys Gly Arg Phe Thr Ile Thr Thr Asp Lys Ser Thr Ser Thr Ala 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 Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln Gly
100 105 110

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

Gly Ser Gly Gly Ser Gly Gly Ala Asp Asp Ile Val Leu Thr Gln Ser
130 135 140

Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
145 150 155 160

Arg Ala Ser Gln Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro
165 170 175

Gly Lys Ala Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Val Ala Ser
180 185 190

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

Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys
210 215 220

Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe Gly Gly Gly Thr Lys Val
225 230 235 240

Glu Ile Lys

<210> 8
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Anti-CD3 VH

<400> 8

Asp 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 Arg Tyr
 20 25 30

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

Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Thr Thr Asp Lys Ser Thr Ser Thr Ala 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 Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln Gly
 100 105 110

Thr Thr Val Thr Val Ser Ser
 115

<210> 9
 <211> 106
 <212> PRT

<213> Artificial Sequence

<220>

<223> Anti-CD3 VL

<400> 9

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Tyr Met
20 25 30

Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Trp Ile Tyr
35 40 45

Asp Thr Ser Lys Val Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
50 55 60

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

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

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 10

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Anti-CD3 ScFv linker sequence

<400> 10

Gly Glu Gly Thr Ser Thr Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly
1 5 10 15

Ala Asp

<210> 11
 <211> 252
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Anti-FAP ScFv

<400> 11

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

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30

Arg Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Pro Pro Lys Leu Leu Ile Phe Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Phe Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
 85 90 95

Tyr Phe Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

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

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

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130

135

140

Ser Val Lys Val Ser Cys Lys Thr Ser Arg Tyr Thr Phe Thr Glu Tyr
145 150 155 160

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

Gly Gly Ile Asn Pro Asn Asn Gly Ile Pro Asn Tyr Asn Gln Lys Phe
180 185 190

Lys Gly Arg Val Thr Ile Thr Val Asp Thr Ser Ala Ser Thr Ala Tyr
195 200 205

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

Ala Arg Arg Arg Ile Ala Tyr Gly Tyr Asp Glu Gly His Ala Met Asp
225 230 235 240

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
245 250

<210> 12
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-FAP VL domain

<400> 12

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

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30

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Arg Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Phe Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Phe Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
85 90 95

Tyr Phe Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 13
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-FAP VH domain

<400> 13

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 Arg Tyr Thr Phe Thr Glu Tyr
20 25 30

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

Gly Gly Ile Asn Pro Asn Asn Gly Ile Pro Asn Tyr Asn Gln Lys Phe

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50

55

60

Lys Gly Arg Val Thr Ile Thr Val 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 Arg Arg Ile Ala Tyr Gly Tyr Asp Glu Gly His Ala Met Asp
100 105 110

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

<210> 14
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-FAP and Anti-EpCAM linker sequence

<400> 14

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

<210> 15
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> BiTe leader sequence

<400> 15

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser

<210> 16
 <211> 248
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Anti-EpCAM ScFv

<400> 16

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
 20 25 30

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

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn
 85 90 95

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

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

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

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

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

Ile Gly Asp Ile Phe Pro Gly Ser Gly Asn Ile His Tyr Asn Glu Lys
180 185 190

Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala
195 200 205

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

Cys Ala Arg Leu Arg Asn Trp Asp Glu Pro Met Asp Tyr Trp Gly Gln
225 230 235 240

Gly Thr Thr Val Thr Val Ser Ser
245

<210> 17
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-EpCAM VL

<400> 17

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln

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35

40

45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn
85 90 95

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

Lys

<210> 18

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Anti-EpCAM VH

<400> 18

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

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

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

Ile Gly Asp Ile Phe Pro Gly Ser Gly Asn Ile His Tyr Asn Glu Lys
50 55 60

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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 Phe Glu Asp Ser Ala Val Tyr Phe
85 90 95

Cys Ala Arg Leu Arg Asn Trp Asp Glu Pro Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 19
<211> 542
<212> PRT
<213> Artificial Sequence

<220>
<223> Control BiTe (Anti-FHA)

<400> 19

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Glu Leu Asp Ile Val Met Thr Gln Ala Pro Ala Ser Leu
20 25 30

Ala Val Ser Leu Gly Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys
35 40 45

Ser Val Ser Ser Ser Gly Tyr Asn Tyr Leu His Trp Tyr Gln Gln Lys
50 55 60

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu
65 70 75 80

Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe

85

90

95

Thr Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr
 100 105 110

Cys Gln His Ser Arg Glu Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys
 115 120 125

Leu Glu Ile Lys Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly
 130 135 140

Gly Ser Ser Arg Ser Ser Leu Glu Val Gln Leu Gln Gln Ser Gly Pro
 145 150 155 160

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

Gly Tyr Thr Phe Thr Gly Tyr Thr Met His Trp Val Arg Gln Ser His
 180 185 190

Gly Lys Ser Leu Glu Trp Ile Gly Gly Ile Asn Pro Lys Asn Gly Gly
 195 200 205

Ile Ile Tyr Asn Gln Lys Phe Gln Gly Lys Ala Thr Leu Thr Val Asp
 210 215 220

Lys Ser Ser Ser Thr Ala Ser Met Glu Leu Arg Ser Leu Thr Ser Asp
 225 230 235 240

Asp Ser Ala Val Tyr Tyr Cys Ala Arg Arg Val Tyr Asp Asp Tyr Pro
 245 250 255

Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val
 260 265 270

Ser Ser Ala Lys Thr Thr Pro Pro Ser Val Thr Ser Gly Gly Gly Gly

275

280

285

Ser Asp Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 290 295 300

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg
 305 310 315 320

Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 325 330 335

Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Ala Asp Ser
 340 345 350

Val Lys Gly Arg Phe Thr Ile Thr Thr Asp Lys Ser Thr Ser Thr Ala
 355 360 365

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr
 370 375 380

Cys Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln
 385 390 395 400

Gly Thr Thr Val Thr Val Ser Ser Gly Glu Gly Thr Ser Thr Gly Ser
 405 410 415

Gly Gly Ser Gly Gly Ser Gly Gly Ala Asp Asp Ile Val Leu Thr Gln
 420 425 430

Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser
 435 440 445

Cys Arg Ala Ser Gln Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys
 450 455 460

Pro Gly Lys Ala Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Val Ala

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465 470 475 480

Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr
 485 490 495

Ser Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr
 500 505 510

Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe Gly Gly Gly Thr Lys
 515 520 525

Val Glu Ile Lys His His His His His His His His His His
 530 535 540

<210> 20
<211> 265
<212> PRT
<213> Artificial Sequence

<220>
<223> Control (Anti-FHA) ScFv

<400> 20

Glu Leu Asp Ile Val Met Thr Gln Ala Pro Ala Ser Leu Ala Val Ser
1 5 10 15

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

Ser Ser Gly Tyr Asn Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu Ser Gly Val
 50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn
65 70 75 80

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Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln His
85 90 95

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

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

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

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

Phe Thr Gly Tyr Thr Met His Trp Val Arg Gln Ser His Gly Lys Ser
165 170 175

Leu Glu Trp Ile Gly Gly Ile Asn Pro Lys Asn Gly Gly Ile Ile Tyr
180 185 190

Asn Gln Lys Phe Gln Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser
195 200 205

Ser Thr Ala Ser Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Ser Ala
210 215 220

Val Tyr Tyr Cys Ala Arg Arg Val Tyr Asp Asp Tyr Pro Tyr Tyr Tyr
225 230 235 240

Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala
245 250 255

Lys Thr Thr Pro Pro Ser Val Thr Ser
260 265

<210> 21
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Control (Anti-FHA) VL

<400> 21

Glu Leu Asp Ile Val Met Thr Gln Ala Pro Ala Ser Leu Ala Val Ser
 1 5 10 15

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

Ser Ser Gly Tyr Asn Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu Ser Gly Val
 50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn
 65 70 75 80

Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln His
 85 90 95

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

Lys

<210> 22
 <211> 133
 <212> PRT
 <213> Artificial Sequence

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<220>

<223> Control (Anti-FHA) VH

<400> 22

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

Ser Val Lys Ile Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Gly Tyr
20 25 30

Thr Met His Trp Val Arg Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

Gly Gly Ile Asn Pro Lys Asn Gly Gly Ile Ile Tyr Asn Gln Lys Phe
50 55 60

Gln Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Ser
65 70 75 80

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

Ala Arg Arg Val Tyr Asp Asp Tyr Pro Tyr Tyr Tyr Ala Met Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro
115 120 125

Pro Ser Val Thr Ser
130

<210> 23

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Control (Anti-FHA) ScFv linker sequence

<400> 23

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

Ser Ser Leu

<210> 24

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Deca-His Tag sequence

<400> 24

His His His His His His His His His His
1 5 10

<210> 25

<211> 786

<212> PRT

<213> Artificial Sequence

<220>

<223> FAP BiTE-P2A-RFP

<400> 25

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val
20 25 30

Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu
35 40 45

Leu Tyr Ser Arg Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys

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50

55

60

Pro Gly Gln Pro Pro Lys Leu Leu Ile Phe Trp Ala Ser Thr Arg Glu
65 70 75 80

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Phe Gly Thr Asp Phe
85 90 95

Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr
100 105 110

Cys Gln Gln Tyr Phe Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys
115 120 125

Val Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
130 135 140

Gly Gly Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
145 150 155 160

Pro Gly Ala Ser Val Lys Val Ser Cys Lys Thr Ser Arg Tyr Thr Phe
165 170 175

Thr Glu Tyr Thr Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu
180 185 190

Glu Trp Ile Gly Gly Ile Asn Pro Asn Asn Gly Ile Pro Asn Tyr Asn
195 200 205

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

Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
225 230 235 240

Tyr Tyr Cys Ala Arg Arg Arg Ile Ala Tyr Gly Tyr Asp Glu Gly His

245

250

255

Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
 260 265 270

Gly Gly Gly Ser Asp Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys
 275 280 285

Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr
 290 295 300

Phe Thr Arg Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly
 305 310 315 320

Leu Glu Trp Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr
 325 330 335

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Thr Thr Asp Lys Ser Thr
 340 345 350

Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala
 355 360 365

Thr Tyr Tyr Cys Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr
 370 375 380

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Glu Gly Thr Ser
 385 390 395 400

Thr Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ala Asp Asp Ile Val
 405 410 415

Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala
 420 425 430

Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Tyr Met Asn Trp Tyr

435

440

445

Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Trp Ile Tyr Asp Thr Ser
 450 455 460

Lys Val Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly
 465 470 475 480

Thr Asp Tyr Ser Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala
 485 490 495

Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe Gly Gly
 500 505 510

Gly Thr Lys Val Glu Ile Lys His His His His His His His His His
 515 520 525

His Arg Arg Lys Arg Gly Ser Gly Ala Thr Asn Phe Ser Leu Leu Lys
 530 535 540

Gln Ala Gly Asp Val Glu Glu Asn Pro Gly Pro Met Ser Glu Leu Ile
 545 550 555 560

Lys Glu Asn Met His Met Lys Leu Tyr Met Glu Gly Thr Val Asn Asn
 565 570 575

His His Phe Lys Cys Thr Ser Glu Gly Glu Gly Lys Pro Tyr Glu Gly
 580 585 590

Thr Gln Thr Met Lys Ile Lys Val Val Glu Gly Gly Pro Leu Pro Phe
 595 600 605

Ala Phe Asp Ile Leu Ala Thr Ser Phe Met Tyr Gly Ser Lys Ala Phe
 610 615 620

Ile Asn His Thr Gln Gly Ile Pro Asp Phe Phe Lys Gln Ser Phe Pro

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625 630 635 640

Glu Gly Phe Thr Trp Glu Arg Ile Thr Thr Tyr Glu Asp Gly Gly Val
645 650 655

Leu Thr Ala Thr Gln Asp Thr Ser Phe Gln Asn Gly Cys Ile Ile Tyr
660 665 670

Asn Val Lys Ile Asn Gly Val Asn Phe Pro Ser Asn Gly Pro Val Met
675 680 685

Gln Lys Lys Thr Arg Gly Trp Glu Ala Asn Thr Glu Met Leu Tyr Pro
690 695 700

Ala Asp Gly Gly Leu Arg Gly His Ser Gln Met Ala Leu Lys Leu Val
705 710 715 720

Gly Gly Gly Tyr Leu His Cys Ser Phe Lys Thr Thr Tyr Arg Ser Lys
725 730 735

Lys Pro Ala Lys Asn Leu Lys Met Pro Gly Phe His Phe Val Asp His
740 745 750

Arg Leu Glu Arg Ile Lys Glu Ala Asp Lys Glu Thr Tyr Val Glu Gln
755 760 765

His Glu Met Ala Val Ala Lys Tyr Cys Asp Leu Pro Ser Lys Leu Gly
770 775 780

His Arg
785

<210> 26
<211> 799
<212> PRT
<213> Artificial Sequence

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<220>

<223> Control (Anti-FHA) BiTE-P2A-RFP

<400> 26

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Glu Leu Asp Ile Val Met Thr Gln Ala Pro Ala Ser Leu
20 25 30

Ala Val Ser Leu Gly Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys
35 40 45

Ser Val Ser Ser Ser Gly Tyr Asn Tyr Leu His Trp Tyr Gln Gln Lys
50 55 60

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu
65 70 75 80

Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr
100 105 110

Cys Gln His Ser Arg Glu Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys
115 120 125

Leu Glu Ile Lys Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly
130 135 140

Gly Ser Ser Arg Ser Ser Leu Glu Val Gln Leu Gln Gln Ser Gly Pro
145 150 155 160

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

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Gly Tyr Thr Phe Thr Gly Tyr Thr Met His Trp Val Arg Gln Ser His
180 185 190

Gly Lys Ser Leu Glu Trp Ile Gly Gly Ile Asn Pro Lys Asn Gly Gly
195 200 205

Ile Ile Tyr Asn Gln Lys Phe Gln Gly Lys Ala Thr Leu Thr Val Asp
210 215 220

Lys Ser Ser Ser Thr Ala Ser Met Glu Leu Arg Ser Leu Thr Ser Asp
225 230 235 240

Asp Ser Ala Val Tyr Tyr Cys Ala Arg Arg Val Tyr Asp Asp Tyr Pro
245 250 255

Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val
260 265 270

Ser Ser Ala Lys Thr Thr Pro Pro Ser Val Thr Ser Gly Gly Gly Gly
275 280 285

Ser Asp Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
290 295 300

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg
305 310 315 320

Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
325 330 335

Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Ala Asp Ser
340 345 350

Val Lys Gly Arg Phe Thr Ile Thr Thr Asp Lys Ser Thr Ser Thr Ala
355 360 365

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Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr
370 375 380

Cys Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln
385 390 395 400

Gly Thr Thr Val Thr Val Ser Ser Gly Glu Gly Thr Ser Thr Gly Ser
405 410 415

Gly Gly Ser Gly Gly Ser Gly Gly Ala Asp Asp Ile Val Leu Thr Gln
420 425 430

Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser
435 440 445

Cys Arg Ala Ser Gln Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys
450 455 460

Pro Gly Lys Ala Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Val Ala
465 470 475 480

Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr
485 490 495

Ser Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr
500 505 510

Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe Gly Gly Gly Thr Lys
515 520 525

Val Glu Ile Lys His His His His His His His His His Arg Arg
530 535 540

Lys Arg Gly Ser Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly
545 550 555 560

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Asp Val Glu Glu Asn Pro Gly Pro Met Ser Glu Leu Ile Lys Glu Asn
565 570 575

Met His Met Lys Leu Tyr Met Glu Gly Thr Val Asn Asn His His Phe
580 585 590

Lys Cys Thr Ser Glu Gly Glu Gly Lys Pro Tyr Glu Gly Thr Gln Thr
595 600 605

Met Lys Ile Lys Val Val Glu Gly Gly Pro Leu Pro Phe Ala Phe Asp
610 615 620

Ile Leu Ala Thr Ser Phe Met Tyr Gly Ser Lys Ala Phe Ile Asn His
625 630 635 640

Thr Gln Gly Ile Pro Asp Phe Phe Lys Gln Ser Phe Pro Glu Gly Phe
645 650 655

Thr Trp Glu Arg Ile Thr Thr Tyr Glu Asp Gly Gly Val Leu Thr Ala
660 665 670

Thr Gln Asp Thr Ser Phe Gln Asn Gly Cys Ile Ile Tyr Asn Val Lys
675 680 685

Ile Asn Gly Val Asn Phe Pro Ser Asn Gly Pro Val Met Gln Lys Lys
690 695 700

Thr Arg Gly Trp Glu Ala Asn Thr Glu Met Leu Tyr Pro Ala Asp Gly
705 710 715 720

Gly Leu Arg Gly His Ser Gln Met Ala Leu Lys Leu Val Gly Gly Gly
725 730 735

Tyr Leu His Cys Ser Phe Lys Thr Thr Tyr Arg Ser Lys Lys Pro Ala
740 745 750

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Lys Asn Leu Lys Met Pro Gly Phe His Phe Val Asp His Arg Leu Glu
755 760 765

Arg Ile Lys Glu Ala Asp Lys Glu Thr Tyr Val Glu Gln His Glu Met
770 775 780

Ala Val Ala Lys Tyr Cys Asp Leu Pro Ser Lys Leu Gly His Arg
785 790 795

<210> 27

<211> 945

<212> DNA

<213> Artificial Sequence

<220>

<223> Human EpCAM DNA coding sequence

<400> 27

atggctccgc cgcaagtgct cgcctttgga ctgctcctgg ccgctgctac tgccaccttt	60
gctgccgctc aggaagaatg cgtgtgcgaa aactacaaac tggcagtga ctgcttcgtg	120
aacaataacc gccaatgccg gtgcaccagc gtgggcgcgc agaacactgt catctgcagc	180
aagctggccg caaaatgcct ggtcatgaaa gcggagatga acggatcgaa gctgggtcgg	240
cgcgctaagc cggaaggagc gctacaaaat aacgacgggc tgtacgatcc ggattgacgac	300
gaaagcggtc tgtttaaggc aaagcagtg aatgggacca gcatgtgttg gtgcgtgaac	360
actgccggag tgcgccgcac tgacaaggat accgaaatta cgtgctcgga gcgcgtgaga	420
acgtattgga tcatcatcga gttgaagcat aaagctagag agaagccgta cgatagcaag	480
tccctgcgca ccgctctcca aaaagaaaatt accactagat accaactcga cccgaaattc	540
atcacttcaa tcctgtacga aaacaacgtg attacgatcg acctgggtgca gaactccagc	600
caaaagacgc agaacgacgt ggacattgca gacgtggctt actactttga aaaggacgtg	660
aagggggaat cactatttca ttccaagaaa atggacctga ccgtcaacgg agagcagctc	720
gacctggacc caggtcagac tctgatctac tacgtggacg agaaggcacc ggagttttcg	780

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atgcagggcc tgaaagccgg agtcatcgcc gtgatcgtgg tggtggtgat tgccgtcgtc 840

gccgggatcg tgggtgctcgt gattagccgc aaaaagagaa tggctaagta tgaaaaggca 900

gagatcaagg aaatgggaga aatgcaccgc gaactcaacg catag 945

<210> 28

<211> 314

<212> PRT

<213> Artificial Sequence

<220>

<223> Human EpCAM amino acid sequence

<400> 28

Met Ala Pro Pro Gln Val Leu Ala Phe Gly Leu Leu Leu Ala Ala Ala
1 5 10 15

Thr Ala Thr Phe Ala Ala Ala Gln Glu Glu Cys Val Cys Glu Asn Tyr
20 25 30

Lys Leu Ala Val Asn Cys Phe Val Asn Asn Asn Arg Gln Cys Gln Cys
35 40 45

Thr Ser Val Gly Ala Gln Asn Thr Val Ile Cys Ser Lys Leu Ala Ala
50 55 60

Lys Cys Leu Val Met Lys Ala Glu Met Asn Gly Ser Lys Leu Gly Arg
65 70 75 80

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

Pro Asp Cys Asp Glu Ser Gly Leu Phe Lys Ala Lys Gln Cys Asn Gly
100 105 110

Thr Ser Met Cys Trp Cys Val Asn Thr Ala Gly Val Arg Arg Thr Asp
115 120 125

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Lys Asp Thr Glu Ile Thr Cys Ser Glu Arg Val Arg Thr Tyr Trp Ile
130 135 140

Ile Ile Glu Leu Lys His Lys Ala Arg Glu Lys Pro Tyr Asp Ser Lys
145 150 155 160

Ser Leu Arg Thr Ala Leu Gln Lys Glu Ile Thr Thr Arg Tyr Gln Leu
165 170 175

Asp Pro Lys Phe Ile Thr Ser Ile Leu Tyr Glu Asn Asn Val Ile Thr
180 185 190

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

Ile Ala Asp Val Ala Tyr Tyr Phe Glu Lys Asp Val Lys Gly Glu Ser
210 215 220

Leu Phe His Ser Lys Lys Met Asp Leu Thr Val Asn Gly Glu Gln Leu
225 230 235 240

Asp Leu Asp Pro Gly Gln Thr Leu Ile Tyr Tyr Val Asp Glu Lys Ala
245 250 255

Pro Glu Phe Ser Met Gln Gly Leu Lys Ala Gly Val Ile Ala Val Ile
260 265 270

Val Val Val Val Ile Ala Val Val Ala Gly Ile Val Val Leu Val Ile
275 280 285

Ser Arg Lys Lys Arg Met Ala Lys Tyr Glu Lys Ala Glu Ile Lys Glu
290 295 300

Met Gly Glu Met His Arg Glu Leu Asn Ala
305 310

<210> 29
 <211> 2283
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Human FAP DNA coding sequence

<400> 29
 atgaagacct ggggtgaaaat cgtgttttga gtcgcaacca gcgccgtgct ggccctgttg 60
 gtgatgtgca tcgtgctgcg cccgtcacgc gtgcataaca gcgaagaaaa caccatgaga 120
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Asn Gly Thr Phe Ser Tyr Lys Thr Phe Phe Pro Asn Trp Ile Ser Gly
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Ile Glu Thr Gly Gln Ser Tyr Thr Ile Leu Ser Asn Arg Thr Met Lys
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Ala Tyr Val Gly Pro Gln Glu Val Pro Val Pro Ala Met Ile Ala Ser
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Cys Leu Gln Trp Leu Lys Arg Val Gln Asn Val Ser Val Leu Ser Ile
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Ala Leu Lys Asn Ile Gln Leu Pro Lys Glu Glu Ile Lys Lys Leu Glu
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Glu Met Gly Phe Ile Asp Glu Lys Arg Ile Ala Ile Trp Gly Trp Ser
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Tyr Gly Gly Tyr Val Ser Ser Leu Ala Leu Ala Ser Gly Thr Gly Leu
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Phe Lys Cys Gly Ile Ala Val Ala Pro Val Ser Ser Trp Glu Tyr Tyr
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 675 680 685

Phe Arg Asn Val Asp Tyr Leu Leu Ile His Gly Thr Ala Asp Asp Asn
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Val His Phe Gln Asn Ser Ala Gln Ile Ala Lys Ala Leu Val Asn Ala
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Gln Val Asp Phe Gln Ala Met Trp Tyr Ser Asp Gln Asn His Gly Leu
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<213> Artificial Sequence

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<213> Artificial Sequence

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<211> 14

<212> DNA

<213> Artificial Sequence

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<211> 192

<212> DNA

<213> Artificial Sequence

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<223> SV40 poly Adenylation sequence

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<212> DNA

<213> Artificial Sequence

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<223> EpCam BiTE nucleic acid sequence (OKT3)

<400> 44

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<211> 1551

<212> DNA

<213> Artificial Sequence

<220>

<223> FAP BiTE nucleic acid sequence (OKT3)

<400> 45

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<210> 46

<211> 1557

<212> DNA

<213> Artificial Sequence

<220>

<223> FAP BiTE nucleic acid sequence (aCD3)

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tcgctgagaa gcgaggacac cgctacttac tactgcgcta gatactacga tgatcactac	1140
tgctcgtgatt actggggcca gggaaccact gtcacggtgt catcgggaga gggcacctca	1200
accggatcag ggggatcggg aggctcgggc ggcgagacg acatcgtcct gaccagtcg	1260
cccgccacct tgtcgtgtc cccaggagaa agagcgaccc tgtcatgccg ggcgtcgcaa	1320

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agcgtgagct atatgaattg gtatcagcag aagccaggaa aggcgccgaa gagatggatc	1380
tacgacacct ccaaggctgc ttcagggtgtc ccggctagat tctcaggatc gggatcagga	1440
acggactact ccctgaccat caattcactg gaagcagaag atgcggccac ctactactgt	1500
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<210> 47
 <211> 1856
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NG-611 Transgene cassette

<400> 47 caggcccacc atgggatgga gctgcatcat cctattcctc gtggcgacgg ccactggagt	60
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ggtcaccatg tcgtgcaagt cctcgcaaag cctgcttaac agcggcaacc agaaaaacta	180
cctcacgtgg tatcagcaaa agccagggtca acccccaaaa ctgctcatct actgggcgag	240
caccgcgag tcgggggtgc cagaccggtt caccggctcc gggtcaggaa ctgatttcac	300
cctaaccatc agctcgggtg aagcggagga cctggccgtg tactactgcc aaaatgatta	360
ctcgtaccct ctgacctttg gagcgggcac caagctcgaa atcaagggcg gtggaggaag	420
cggcggggga ggctcagggtg ggggaggatc agaagtcaa ctgctggagc agtcaggagc	480
cgaactggtc cgcccgggaa cctccgtcaa gatttcctgt aaggcttccg gctacgcttt	540
taccaattac tggctgggct ggggtcaagca aagaccgggg catggcctgg agtggatcgg	600
cgacatcttc ccaggagcgc gcaacatcca ctacaacgag aagttcaagg ggaaagcgac	660
tctgactgcc gacaaatcat ccagcaccgc ctacatgcag ctgtcgtcgc tcactttcga	720
agacagcgcg gtgtactttt gtgctcggct ccggaactgg gatgaaccaa tggactactg	780
gggacaagga actaccgtga ccgtctcctc cggcggcggg ggaagccagg tgcagctgca	840
gcagtctggg gctgaactgg caagacctgg ggcctcagtg aagatgtcct gcaaggcttc	900

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cctgacatct gaggactctg cagtctatta ctgtgcaaga tattatgatg atcattactg	1140
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cacagacatg ataagataca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa	1680
aaaatgcttt atttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg	1740
caataaaca gttaacaaca acaattgcat tcattttatg ttccaggttc agggggaggt	1800
gtgggaggtt ttttaaagca agtaaaacct ctacaaatgt ggtagtcgtc agctat	1856

<210> 48
 <211> 1868
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NG-612 Transgene cassette

<400> 48	
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ggcgactatc aactgcaa atcatccagag cctgctgtat tcacgcaatc agaaaaacta	180

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cctggcctgg tatcagcaga agccggggcca gcctcccaag ctgctgatct tctgggcctc	240
cacccgcgaa agcggcggtgc cggaccgctt cagcgggaagc ggattcggaa ctgactttac	300
tctgaccatt agctccttgc aggcgggagga cgtggccgtc tactactgcc agcagtatct	360
ctcctatccg ctcacctttg ggcaaggcac caagggtggag attaaggagagg ggggcggcag	420
cggggggaggc ggagcggcg gcgggggatc gcagggtccag ctggtccaat ccggagccga	480
agtcaagaag ccgggagcgt cgggtcaaggc cagctgcaaa acttcgcgct acaccttcac	540
tgagtacacg atccactggg tccgccaggc gcccgccag cggctggagt ggatcggcgg	600
gatcaaccca aacaacggaa tcccaaatta caatcagaaa tttaaagggc ggggtgactat	660
caccgtggat acctcggcct ccacggcgta catggagctc tcatcactca gatcggagga	720
caccgcggtc tattactgcg cccgccgccg gatcgcttat ggatacgatg aaggacatgc	780
gatggattac tggggccagg gcaccctcgt cacgggtgtc tcaggaggcg gcggttcaca	840
ggtgcagctg cagcagtctg gggctgaact ggcaagacct ggggcctcag tgaagatgtc	900
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tcagaagttc aaggacaagg ccacattgac tacagacaaa tcctccagca cagcctacat	1080
gcaactgagc agcctgacat ctgaggactc tgcagtctat tactgtgcaa gatattatga	1140
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cgggtggctc ggcggtgggt gatctgggtg cggcggatct gatatcgtgc tcactcagtc	1260
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ttatgacaca tccaaactgg cttctggagt ccctgctcac ttcaggggca gtgggtctgg	1440
gacctcttac tctctcacia tcagcggcat ggaggctgaa gatgctgcca cttattactg	1500
ccagcagtgg agtagtaacc cattcacgtt cggctcgggg acaaagttgg aaataaacgg	1560
gcatcaccat caccatcacc accatcacca ttaggctagc ttgactgact gagatacagc	1620

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gtaccttcag ctcacagaca tgataagata cattgatgag tttggacaaa ccacaactag	1680
aatgcagtga aaaaaatgct ttattttgtga aattttgtgat gctattgctt tattttgtaac	1740
cattataagc tgcaataaac aagttaacaa caacaattgc attcatttta tgtttcaggt	1800
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tcagctat	1868

<210> 49
 <211> 1878
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NG-613 Transgene cassette

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tgggagagcg ggcgactatc aactgcaaat catcccagag cctgctgtat tcacgcaatc	180
agaaaaacta cctggcctgg tatcagcaga agccgggcca gcctcccaag ctgctgatct	240
tctgggcctc caccgcgaa agcggcgtgc cggaccgctt cagcgggaagc ggattcggaa	300
ctgactttac tctgaccatt agctccttgc aggcggagga cgtggccgctc tactactgcc	360
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ggggcggcag cgggggaggc ggcagcggcg gcgggggatc gcaggtccag ctcgtccaat	480
ccggagccga agtcaagaag ccgggagcgt cgggtcaaggt cagctgcaaa acttcgcgct	540
acaccttcac tgagtacacg atccactggg tccgccaggc gcccggccag cggctggagt	600
ggatcggcgg gatcaacca aacaacggaa tcccaaatta caatcagaaa tttaaagggc	660
gggtgactat caccgtggat acctcggcct ccacggcgta catggagctc tcatcactca	720
gatcggagga caccgcggtc tattactgcg cccgccgccg gatcgcttat ggatacgatg	780
aaggacatgc gatggattac tggggccagg gcaccctcgt cacggtgtcg tcaggaggcg	840

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cagcctacat gcaactgagc agcctgacat ctgaggactc tgcagtctat tactgtgcaa 1140
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gagatacagc gtaccttcag ctcacagaca tgataagata cattgatgag tttggacaaa 1680
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tatttgaac cattataagc tgcaataaac aagttaacaa caacaattgc attcatttta 1800
tgtttcaggt tcagggggag gtgtgggagg ttttttaaag caagtaaac ctctacaaat 1860
gtggtagtcg tcagctat 1878

<210> 50
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Restriction site insert (Bx)

<400> 50
gcggccgcta tggccggcc

19

<210> 51
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Restriction site insert (By)

<400> 51
 gcgatcgcta ccctgcagg 19

<210> 52
 <211> 572
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> CMV promoter sequence

<400> 52
 agtaatcaat tacgggggtca ttagttcata gcccatatat ggagttccgc gttacataac 60
 ttacggtaaa tggcccgccct ggctgaccgc ccaacgaccc ccgcccattg acgtcaataa 120
 tgacgtatgt tcccatagta acgccaatag ggactttcca ttgacgtcaa tgggtggagt 180
 atttacggta aactgcccac ttggcagtac atcaagtgt tcatatgcca agtacgcccc 240
 ctattgacgt caatgacggg aaatggcccg cctggcatta tgcccagtac atgaccttat 300
 gggactttcc tacttggcag tacatctacg tattagtcac cgctattacc atgctgatgc 360
 ggTTTTGGCA gtacatcaat gggcgtggat agcggTTTGA CTCACGGGGA TTTCCAAGTC 420
 tccaccccat tgacgtcaat gggagTTTGT TTTGGCACCA AAATCAACGG GACTTTCAA 480
 aatgtcgtaa caactccgcc ccattgacgc aaatgggcgg taggcgtgta cggTGGGAGG 540
 tctatataag cagagctggg ttagtgaacc gt 572

<210> 53
 <211> 505
 <212> DNA
 <213> Artificial Sequence

<220>

<223> PGK promoter sequence

<400> 53

ctaccgggta ggggaggcgc ttttcccaag gcagtctgga gcatgcgctt tagcagcccc	60
gctgggcact tggcgctaca caagtggcct ctggcctcgc acacattcca catccaccgg	120
taggcgccaa ccggctccgt tctttggtgg ccccttcgcg ccaccttcta cccctcccct	180
agtcaggaag ttcccccccg ccccgagct cgcgatcatgc aggacgtgac aaatggaagt	240
agcacgtctc actagtctcg tgcaaatgga cagcaccgct gagcaatgga agcgggtagg	300
cccttggggc agcggccaat agcagctttg ctccttcgct ttctgggctc agaggctggg	360
aaggggtggg tccgggggcg ggctcagggg cgggctcagg ggcggggcgg gcgcccgaag	420
gtcctccgga ggcccggcat tccgcacgct tcaaaagcgc acgtctgccg cgctgttctc	480
ttcttcctca tctccgggcc tttcg	505

<210> 54

<211> 367

<212> DNA

<213> Artificial Sequence

<220>

<223> CBA promoter sequence

<400> 54

gtcgagggtga gccccacgtt ctgcttcact ctccccatct cccccccctc cccacccccca	60
attttgtatt tatttatatt ttaattatatt tatgcagcga tgggggcggg gggggggggg	120
gcgcgcgcca ggcggggcgg ggcggggcga ggggcggggc ggggcgaggc ggagaggtgc	180
ggcggcagcc aatcagagcg gcgcgctccg aaagtttcct tttatggcga ggcggcggcg	240
gcggcggccc tataaaaagc gaagcgcgcg gcgggcggga gtcgctgcgt tgccttcgcc	300
ccgtgccccg ctccgcgccg cctcgcgccg cccgccccgg ctctgactga ccgcgttact	360
cccacag	367

<210> 55

<400> 55
000

<210> 56

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> splice acceptor (SA) DNA sequence

<400> 56

cctttctctc ttcagg

16

<210> 57

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> branched splice acceptor (bSA) DNA sequence

<400> 57

tgctaatcct ttctctcttc agg

23

<210> 58

<400> 58

000

<210> 59

<211> 13

<212> RNA

<213> Artificial Sequence

<220>

<223> Example of start codon

<220>

<221> misc_feature

<222> (11)..(11)

<223> R is adenine or guanine

<400> 59
gccgccrcca ugg 13

<210> 60
<211> 551
<212> DNA
<213> Artificial Sequence

<220>
<223> Internal Ribosome Entry Sequence (IRES)

<400> 60
cgttactggc cgaagccgct tggaataagg ccggtgtgcg tttgtctata tgttattttc 60
caccatattg ccgtcttttg gcaatgtgag ggcccggaaa cctggccctg tcttcttgac 120
gagcattcct aggggtcttt cccctctcgc caaaggaatg caaggctctgt tgaatgtcgt 180
gaaggaagca gttcctctgg aagcttcttg aagacaaaca acgtctgtag cgaccctttg 240
caggcagcgg aacccccac ctggcgacag gtgcctctgc ggccaaaagc cacgtgtata 300
agatacacct gcaaaggcgg cacaacccca gtgccacgtt gtgagttgga tagttgtgga 360
aagagtcaaa tggctcccct caagcgtatt caacaagggg ctgaaggatg cccagaaggt 420
acccattgt atgggatctg atctggggcc tcggtgcaca tgcttttcat gtgttttagtc 480
gaggttaaaa aacgtctagg ccccccgaac cacggggacg tggttttcct ttgaaaaaca 540
cgatgataat a 551

<210> 61
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> P2A peptide

<400> 61

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> 62
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> F2A peptide

<400> 62

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

Glu Asn Pro Gly Pro
20

<210> 63
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> E2A peptide

<400> 63

Gly Ser Gly Gln Cys Thr Asn Tyr Ala Leu Leu Lys Leu Ala Gly Asp
1 5 10 15

Val Glu Ser Asn Pro Gly Pro
20

<210> 64
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> T2A peptide

<400> 64

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

Gly Asp Val Glu Ser Asn Pro Gly Pro
 20 25

<210> 65

<211> 192

<212> DNA

<213> Artificial Sequence

<220>

<223> polyadenylation (polyA) sequence

<400> 65

cagacatgat aagatacatt gatgagtttg gacaaaccac aactagaatg cagtgaaaaa 60

aatgctttat ttgtgaaatt tgtgatgcta ttgctttatt tgtaaccatt ataagctgca 120

ataaacaagt taacaacaac aattgcattc attttatggt tcaggttcag ggggaggtgt 180

gggaggtttt tt 192

<210> 66

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Leader sequence

<400> 66

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
 1 5 10 15

Val His Ser

<210> 67

<211> 19

<212> PRT
<213> Artificial Sequence

<220>
<223> Leader sequence

<400> 67

Met	Asp	Trp	Thr	Trp	Arg	Val	Phe	Cys	Leu	Leu	Ala	Val	Ala	Pro	Gly
1				5					10					15	

Ala His Ser

<210> 68
<211> 166
<212> PRT
<213> Artificial Sequence

<220>
<223> IFN gamma amino acid sequence

<400> 68

Met	Lys	Tyr	Thr	Ser	Tyr	Ile	Leu	Ala	Phe	Gln	Leu	Cys	Ile	Val	Leu
1				5					10					15	

Gly	Ser	Leu	Gly	Cys	Tyr	Cys	Gln	Asp	Pro	Tyr	Val	Lys	Glu	Ala	Glu
		20						25					30		

Asn	Leu	Lys	Lys	Tyr	Phe	Asn	Ala	Gly	His	Ser	Asp	Val	Ala	Asp	Asn
		35					40					45			

Gly	Thr	Leu	Phe	Leu	Gly	Ile	Leu	Lys	Asn	Trp	Lys	Glu	Glu	Ser	Asp
	50					55					60				

Arg	Lys	Ile	Met	Gln	Ser	Gln	Ile	Val	Ser	Phe	Tyr	Phe	Lys	Leu	Phe
65					70					75					80

Lys	Asn	Phe	Lys	Asp	Asp	Gln	Ser	Ile	Gln	Lys	Ser	Val	Glu	Thr	Ile
				85					90					95	

Lys Glu Asp Met Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg
100 105 110

Asp Asp Phe Glu Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val
115 120 125

Gln Arg Lys Ala Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser
130 135 140

Pro Ala Ala Lys Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Arg
145 150 155 160

Gly Arg Arg Ala Ser Gln
165

<210> 69
<211> 188
<212> PRT
<213> Artificial Sequence

<220>
<223> IFN alpha amino acid sequence

<400> 69

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

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

Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
35 40 45

Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
50 55 60

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Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
65 70 75 80

Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser
85 90 95

Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
100 105 110

Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
115 120 125

Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
130 135 140

Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
145 150 155 160

Cys Ala Trp Glu Val Val Arg Ala Glu Ile Met Arg Ser Phe Ser Leu
165 170 175

Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
180 185

<210> 70

<211> 233

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF alpha amino acid sequence

<400> 70

Met Ser Thr Glu Ser Met Ile Arg Asp Val Glu Leu Ala Glu Glu Ala
1 5 10 15

Leu Pro Lys Lys Thr Gly Gly Pro Gln Gly Ser Arg Arg Cys Leu Phe
20 25 30

Leu Ser Leu Phe Ser Phe Leu Ile Val Ala Gly Ala Thr Thr Leu Phe
35 40 45

Cys Leu Leu His Phe Gly Val Ile Gly Pro Gln Arg Glu Glu Phe Pro
50 55 60

Arg Asp Leu Ser Leu Ile Ser Pro Leu Ala Gln Ala Val Arg Ser Ser
65 70 75 80

Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val Val Ala Asn Pro
85 90 95

Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg Ala Asn Ala Leu
100 105 110

Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu Val Val Pro Ser
115 120 125

Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe Lys Gly Gln Gly
130 135 140

Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile Ser Arg Ile Ala
145 150 155 160

Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala Ile Lys Ser Pro
165 170 175

Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys Pro Trp Tyr Glu
180 185 190

Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys Gly Asp Arg Leu
195 200 205

Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe Ala Glu Ser Gly
210 215 220

Gln Val Tyr Phe Gly Ile Ile Ala Leu
 225 230

<210> 71
 <211> 5288
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to E2B region of the EnAd genome (bp
 10355-5068)

<400> 71
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 gggatatgaga cgatgggcgt ccagcgctgc cagggttcgg tccttccagg gtctcagtgt 120
 tcgagtcagg gttgtttccg tcacagtga ggggtgtgcg cctgcttggg cgcttgccag 180
 ggtgcgcttc agactcatcc tgctggtcga aaacttctgt cgcttggcgc cctgtatgtc 240
 ggccaagtag cagtttacca tgagtctgta gttgagcgcc tcggctgcgt ggcctttggc 300
 gcggagctta cctttggaag ttttcttgca taccgggcag tataggcatt tcagcgcata 360
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 aacagtttca cattccacca gccagggttaa atccgggttca ttgggggtcaa aaacaagttt 480
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gtagtagaag	cccaggaaaa	ctcgcgtacg	cggttccaaa	tggtgcgtag	cggcatgaag	5280

tagttcat

5288

<210> 72

<211> 1548

<212> DNA

<213> Artificial Sequence

<220>

<223> Anti-EpCAM BiTE DNA coding sequence, with N-terminal signal sequence and C-terminal deca-His affinity tag

<400> 72

```

atgggatgga gctgcatcat cctattcctc gtggcgacgg ccactggagt gcatagcgaa      60
ctggatgatga ctgagtcctc gtcacccctg acggtgaccg ccggcgagaa ggacaccatg      120
tcgtgcaagt cctcgcaaaag cctgcttaac agcggcaacc agaaaaacta cctcacgtgg      180
tatcagcaaa agccagggtca acccccaaaa ctgctcatct actgggagag caccgcgag      240
tcgggggtgc cagaccggtt caccggctcc gggtcaggaa ctgatttcac cctaaccatc      300
agctcgggtgc aagcggagga cctggccgtg tactactgcc aaaatgatta ctgtaccct      360
ctgacctttg gagcgggcac caagctcgaa atcaaggcg gtggaggaag cggcggggga      420
ggctcagggtg ggggaggatc agaagtcaa ctgctggagc agtcaggagc cgaactggtc      480
cgcccggaag cctccgtcaa gatttcctgt aaggcttccg gctacgcttt taccaattac      540
tggctgggct ggggtcaagca aagaccgggg catggcctgg agtggatcgg cgacatcttc      600
ccaggagcgc gcaacatcca ctacaacgag aagttcaagg ggaaagcgac tctgactgcc      660
gacaaatcat ccagcaccgc ctacatgcag ctgtcgtcgc tcactttcga agacagcgcg      720
gtgtactttt gtgctcggct ccggaactgg gatgaaccaa tggactactg gggacaagga      780
actaccgtga ccgtctcctc cggcggcggt ggaagcgatg tgcaactcgt gcagtccggt      840
gcggaagtga aaaagccggg cgcgagcgtc aaagtgtcat gcaaggcgtc aggatatacg      900
tttactagat acactatgca ctgggtgcgc caggcacctg gtcagggcct tgaatggatc      960
ggctacatca atccgtcgag aggctacact aattacgcgg actcagtcaa agggcgcttc     1020
acgattacga ccgacaagtc cacctcgact gcatacatgg aactgtcctc gctgagaagc     1080

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tggggccagg gaaccactgt cacggtgtca tcgggagagg gcacctcaac cggatcaggg 1200
ggatcgggag gctcgggagg cgcagacgac atcgtcctga cccagtcgcc cgccaccttg 1260
tcgctgtccc caggagaaaag agcgaccctg tcatgccggg cgtcgcaaag cgtgagctat 1320
atgaattggt atcagcagaa gccaggaaaag gcgccgaaga gatggatcta cgacacctcc 1380
aaggtcgctt caggtgtccc ggctagattc tcaggatcgg gatcaggaac ggactactcc 1440
ctgaccatca attcactgga agcagaagat gcggccacct actactgtca gcagtgggtcc 1500
tccaacccgc tgactttcgg aggcggaact aaggtcgaga tcaagtag 1548

<210> 73

<211> 515

<212> PRT

<213> Artificial Sequence

<220>

<223> Anti-EpCAM BiTE protein sequence, with N-terminal signal sequence
without C-terminal deca-His affinity tag

<400> 73

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Glu Leu Val Met Thr Gln Ser Pro Ser Ser Leu Thr Val
20 25 30

Thr Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu
35 40 45

Leu Asn Ser Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys
50 55 60

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu
65 70 75 80

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Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr
100 105 110

Cys Gln Asn Asp Tyr Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys
115 120 125

Leu Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
130 135 140

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

Arg Pro Gly Thr Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala
165 170 175

Phe Thr Asn Tyr Trp Leu Gly Trp Val Lys Gln Arg Pro Gly His Gly
180 185 190

Leu Glu Trp Ile Gly Asp Ile Phe Pro Gly Ser Gly Asn Ile His Tyr
195 200 205

Asn Glu Lys Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser
210 215 220

Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Phe Glu Asp Ser Ala
225 230 235 240

Val Tyr Phe Cys Ala Arg Leu Arg Asn Trp Asp Glu Pro Met Asp Tyr
245 250 255

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser
260 265 270

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Asp Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
275 280 285

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg Tyr
290 295 300

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
305 310 315 320

Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Ala Asp Ser Val
325 330 335

Lys Gly Arg Phe Thr Ile Thr Thr Asp Lys Ser Thr Ser Thr Ala Tyr
340 345 350

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys
355 360 365

Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln Gly
370 375 380

Thr Thr Val Thr Val Ser Ser Gly Glu Gly Thr Ser Thr Gly Ser Gly
385 390 395 400

Gly Ser Gly Gly Ser Gly Gly Ala Asp Asp Ile Val Leu Thr Gln Ser
405 410 415

Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
420 425 430

Arg Ala Ser Gln Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro
435 440 445

Gly Lys Ala Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Val Ala Ser
450 455 460

Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser
465 470 475 480

Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys
485 490 495

Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe Gly Gly Gly Thr Lys Val
500 505 510

Glu Ile Lys
515

<210> 74
<211> 1560
<212> DNA
<213> Artificial Sequence

<220>
<223> Anti-FAP BiTE DNA coding sequence, with N-terminal signal
sequence without C-terminal deca-His affinity tag

<400> 74
atgggctgga gctgcatcat cttgttcctg gtcgcaactg ctaccggagt ccattcggac 60
atcgtcatga cccaaagccc tgactcgctc gctgtgtcac tgggagagcg ggcgactatc 120
aactgcaa at catcccagag cctgctgtat tcacgcaatc agaaaaacta cctggcctgg 180
tatcagcaga agccggggcca gcctcccaag ctgctgatct tctgggcctc caccgcgaa 240
agcggcgtgc cggaccgctt cagcgggaagc ggattcggaa ctgactttac tctgaccatt 300
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ccgggagcgt cgggtcaaggt cagctgcaaa acttcgcgct acaccttcac tgagtacacg 540
atccactggg tccgccaggc gcccgccag cggctggagt ggatcggcgg gatcaacca 600
aacaacggaa tcccaaatta caatcagaaa tttaaagggc gggtgactat caccgtggat 660

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tattactgcg cccgccgccg gatcgcttat ggatacgatg aaggacatgc gatggattac      780
tggggccagg gcaccctcgt cacggtgtcg tcaggaggcg gcggttcaga tgtgcaactc      840
gtgcagtccg gtgcggaagt gaaaaagccg ggcgcgagcg tcaaagtgtc atgcaaggcg      900
tcaggatata cgtttactag atacactatg cactgggtgc gccaggcacc tggtcagggc      960
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agcgtgagct atatgaattg gtatcagcag aagccaggaa aggcgccgaa gagatggatc     1380
tacgacacct ccaaggtcgc ttcagggtgtc ccggctagat tctcaggatc gggatcagga     1440
acggactact ccctgaccat caattcactg gaagcagaag atgcggccac ctactactgt     1500
cagcagtggg cctccaaccc gctgactttc ggaggcggaa ctaaggtcga gatcaagtag     1560

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<210> 75

<211> 519

<212> PRT

<213> Artificial Sequence

<220>

<223> Anti-FAP BiTE amino acid sequence, with N-terminal signal
sequence without C-terminal deca-His affinity tag

<400> 75

```

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1           5           10          15

```

```

Val His Ser Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val

```


20

25

30

Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu
 35 40 45

Leu Tyr Ser Arg Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
 50 55 60

Pro Gly Gln Pro Pro Lys Leu Leu Ile Phe Trp Ala Ser Thr Arg Glu
 65 70 75 80

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Phe Gly Thr Asp Phe
 85 90 95

Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr
 100 105 110

Cys Gln Gln Tyr Phe Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys
 115 120 125

Val Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 130 135 140

Gly Gly Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
 145 150 155 160

Pro Gly Ala Ser Val Lys Val Ser Cys Lys Thr Ser Arg Tyr Thr Phe
 165 170 175

Thr Glu Tyr Thr Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu
 180 185 190

Glu Trp Ile Gly Gly Ile Asn Pro Asn Asn Gly Ile Pro Asn Tyr Asn
 195 200 205

Gln Lys Phe Lys Gly Arg Val Thr Ile Thr Val Asp Thr Ser Ala Ser

210

215

220

Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
 225 230 235 240

Tyr Tyr Cys Ala Arg Arg Arg Ile Ala Tyr Gly Tyr Asp Glu Gly His
 245 250 255

Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
 260 265 270

Gly Gly Gly Ser Asp Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys
 275 280 285

Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr
 290 295 300

Phe Thr Arg Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly
 305 310 315 320

Leu Glu Trp Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr
 325 330 335

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Thr Thr Asp Lys Ser Thr
 340 345 350

Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala
 355 360 365

Thr Tyr Tyr Cys Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr
 370 375 380

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Glu Gly Thr Ser
 385 390 395 400

Thr Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ala Asp Asp Ile Val

405

410

415

Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala
 420 425 430

Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Tyr Met Asn Trp Tyr
 435 440 445

Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Trp Ile Tyr Asp Thr Ser
 450 455 460

Lys Val Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly
 465 470 475 480

Thr Asp Tyr Ser Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala
 485 490 495

Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe Gly Gly
 500 505 510

Gly Thr Lys Val Glu Ile Lys
 515

<210> 76

<211> 1599

<212> DNA

<213> Artificial Sequence

<220>

<223> Control (Anti-FHA) BiTE DNA coding sequence, with N-terminal
 signal sequence without C-terminal deca-His affinity tag

<400> 76

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ctggacatcg tgatgacca ggcacctgca tcttggcag tgagcctggg acagagagcc 120

accatttcat gccgggccag caagagcgtg tcgtcatccg gatacaatta tctgcactgg 180

tatcagcaga aaccaggaca acctccaaag ctactcatct acctggcgtc gaacctcgaa 240

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tcgggcggtcc cagctagatt ctcaggagagc gggtcgggaa ccgatttcac cctgaacatc	300
caccctgtgg aggaggaaga cgcggaacg tactattgcc agcattccccg cgagttccct	360
ctcacttttcg gtgcgggaac taagctggag atcaagtcca gcggcggcgg aggtagcggg	420
ggaggtggcg gaggaagctc ccggctgctg ctggaggtgc agctgcaaca atccggccccg	480
gaactggtca agccaggcgc atccgtcaag atttcatgca agacctcggg gtacaccttc	540
accgggtaca cgatgcattg ggtcaggcag agccacggca agtccctgga atggatcggg	600
ggaatcaacc ccaaaaacgg cggcatcatc tacaaccaa agttccaggg aaaagccact	660
ctgaccgtgg acaagtcgtc gagcacggcc agcatggagc tgcggtccct cacttccgac	720
gactcagccg tgtattactg cgcgagacgg gtctacgatg actaccata ctactacgct	780
atggactact ggggacaagg aaccagcgtg accgtctcat cggcgaaaac tactccgccg	840
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acggataagt ccactagcac cgcctacatg gaactgtcct cgctgcggtc ggaagacact	1140
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aatagcctgg aggccgagga cgctgcaact tactactgcc agcagtggtc ctccaaccct	1560
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<210> 77

<211> 532

<212> PRT

<213> Artificial Sequence

<220>

<223> Control (Anti-FHA) BiTE amino acid sequence with N-terminal signal sequence without C-terminal deca-His tag

<400> 77

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Glu Leu Asp Ile Val Met Thr Gln Ala Pro Ala Ser Leu
20 25 30

Ala Val Ser Leu Gly Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys
35 40 45

Ser Val Ser Ser Ser Gly Tyr Asn Tyr Leu His Trp Tyr Gln Gln Lys
50 55 60

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu
65 70 75 80

Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr
100 105 110

Cys Gln His Ser Arg Glu Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys
115 120 125

Leu Glu Ile Lys Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly
130 135 140

Gly Ser Ser Arg Ser Ser Leu Glu Val Gln Leu Gln Gln Ser Gly Pro

145 150 155 160

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

Gly Tyr Thr Phe Thr Gly Tyr Thr Met His Trp Val Arg Gln Ser His
180 185 190

Gly Lys Ser Leu Glu Trp Ile Gly Gly Ile Asn Pro Lys Asn Gly Gly
195 200 205

Ile Ile Tyr Asn Gln Lys Phe Gln Gly Lys Ala Thr Leu Thr Val Asp
210 215 220

Lys Ser Ser Ser Thr Ala Ser Met Glu Leu Arg Ser Leu Thr Ser Asp
225 230 235 240

Asp Ser Ala Val Tyr Tyr Cys Ala Arg Arg Val Tyr Asp Asp Tyr Pro
245 250 255

Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val
260 265 270

Ser Ser Ala Lys Thr Thr Pro Pro Ser Val Thr Ser Gly Gly Gly Gly
275 280 285

Ser Asp Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
290 295 300

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg
305 310 315 320

Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
325 330 335

Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Ala Asp Ser

340

345

350

Val Lys Gly Arg Phe Thr Ile Thr Thr Asp Lys Ser Thr Ser Thr Ala
 355 360 365

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr
 370 375 380

Cys Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln
 385 390 395 400

Gly Thr Thr Val Thr Val Ser Ser Gly Glu Gly Thr Ser Thr Gly Ser
 405 410 415

Gly Gly Ser Gly Gly Ser Gly Gly Ala Asp Asp Ile Val Leu Thr Gln
 420 425 430

Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser
 435 440 445

Cys Arg Ala Ser Gln Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys
 450 455 460

Pro Gly Lys Ala Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Val Ala
 465 470 475 480

Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr
 485 490 495

Ser Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr
 500 505 510

Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe Gly Gly Gly Thr Lys
 515 520 525

Val Glu Ile Lys

530

<210> 78

<211> 532

<212> PRT

<213> Artificial Sequence

<220>

<223> Control BiTe (Anti-FHA) without C-terminal deca-His tag

<400> 78

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
 1 5 10 15

Val His Ser Glu Leu Asp Ile Val Met Thr Gln Ala Pro Ala Ser Leu
 20 25 30

Ala Val Ser Leu Gly Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys
 35 40 45

Ser Val Ser Ser Ser Gly Tyr Asn Tyr Leu His Trp Tyr Gln Gln Lys
 50 55 60

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu
 65 70 75 80

Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
 85 90 95

Thr Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr
 100 105 110

Cys Gln His Ser Arg Glu Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys
 115 120 125

Leu Glu Ile Lys Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly
 130 135 140

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Gly Ser Ser Arg Ser Ser Leu Glu Val Gln Leu Gln Gln Ser Gly Pro
145 150 155 160

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

Gly Tyr Thr Phe Thr Gly Tyr Thr Met His Trp Val Arg Gln Ser His
180 185 190

Gly Lys Ser Leu Glu Trp Ile Gly Gly Ile Asn Pro Lys Asn Gly Gly
195 200 205

Ile Ile Tyr Asn Gln Lys Phe Gln Gly Lys Ala Thr Leu Thr Val Asp
210 215 220

Lys Ser Ser Ser Thr Ala Ser Met Glu Leu Arg Ser Leu Thr Ser Asp
225 230 235 240

Asp Ser Ala Val Tyr Tyr Cys Ala Arg Arg Val Tyr Asp Asp Tyr Pro
245 250 255

Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val
260 265 270

Ser Ser Ala Lys Thr Thr Pro Pro Ser Val Thr Ser Gly Gly Gly Gly
275 280 285

Ser Asp Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
290 295 300

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg
305 310 315 320

Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
325 330 335

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Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Ala Asp Ser
340 345 350

Val Lys Gly Arg Phe Thr Ile Thr Thr Asp Lys Ser Thr Ser Thr Ala
355 360 365

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr
370 375 380

Cys Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln
385 390 395 400

Gly Thr Thr Val Thr Val Ser Ser Gly Glu Gly Thr Ser Thr Gly Ser
405 410 415

Gly Gly Ser Gly Gly Ser Gly Gly Ala Asp Asp Ile Val Leu Thr Gln
420 425 430

Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser
435 440 445

Cys Arg Ala Ser Gln Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys
450 455 460

Pro Gly Lys Ala Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Val Ala
465 470 475 480

Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr
485 490 495

Ser Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr
500 505 510

Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe Gly Gly Gly Thr Lys
515 520 525

Val Glu Ile Lys
530

<210> 79
<211> 34853
<212> DNA
<213> Artificial Sequence

<220>
<223> NG-601 (EnAd-CMV-EpCAMBiTE) without deca-His affinity tag

<400> 79
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ccgtgggaaa atgacgtttt gtgggggtgg agtttttttg caagttgtcg cgggaaatgt 180
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<210> 83

<211> 1539

<212> DNA

<213> Artificial Sequence

<220>

<223> EpCam BiTE nucleic acid sequence (OKT3)

<400> 83

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<210> 84

<400> 84
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<210> 85

<211> 1551

<212> DNA

<213> Artificial Sequence

<220>

<223> FAP BiTE nucleic acid sequence (OKT3)

<400> 85

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ccgggagcgt cgggtcaaggt cagctgcaaa acttcgcgct acaccttcac tgagtacacg	540
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eolf-othd-000005

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<210> 86

<400> 86
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<210> 87

<211> 1557

<212> DNA

<213> Artificial Sequence

<220>

<223> FAP BiTE nucleic acid sequence (aCD3)

<400> 87

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eolf-othd-000005

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NG-611 Transgene cassette

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<210> 89

<211> 1868

<212> DNA

<213> Artificial Sequence

<220>

<223> NG-612 Transgene cassette

<400> 89

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 <211> 1878
 <212> DNA
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<220>
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<211> 1884

<212> DNA

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<223> NG-614 Transgene cassette

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 <211> 1838
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NG-617 Transgene cassette

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<210> 93

<211> 513

<212> PRT

<213> Artificial Sequence

<220>

<223> EpCam BiTE amino acid sequence (OKT3)

<400> 93

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Val His Ser Glu Leu Val Met Thr Gln Ser Pro Ser Ser Leu Thr Val
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Thr Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu

35

40

45

Leu Asn Ser Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys
 50 55 60

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu
 65 70 75 80

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
 85 90 95

Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr
 100 105 110

Cys Gln Asn Asp Tyr Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys
 115 120 125

Leu Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 130 135 140

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

Arg Pro Gly Thr Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala
 165 170 175

Phe Thr Asn Tyr Trp Leu Gly Trp Val Lys Gln Arg Pro Gly His Gly
 180 185 190

Leu Glu Trp Ile Gly Asp Ile Phe Pro Gly Ser Gly Asn Ile His Tyr
 195 200 205

Asn Glu Lys Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser
 210 215 220

Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Phe Glu Asp Ser Ala

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Val	Tyr	Phe	Cys	Ala	Arg	Tyr
				245		255
Trp	Gly	Gln	Gly	Thr	Thr	Val
			260			265
Gln	Val	Gln	Leu	Gln	Gln	Ser
			275			280
Ser	Val	Lys	Met	Ser	Cys	Lys
						295
Thr	Met	His	Trp	Val	Lys	Gln
305					310	
Gly	Tyr	Ile	Asn	Pro	Ser	Arg
						325
Lys	Asp	Lys	Ala	Thr	Leu	Thr
						340
Met	Gln	Leu	Ser	Ser	Leu	Thr
						355
Ala	Arg	Tyr	Tyr	Asp	Asp	His
						370
Thr	Thr	Leu	Thr	Val	Ser	Ser
385					390	
Ser	Gly	Gly	Gly	Gly	Ser	Gly
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Met	Ser	Ala	Ser	Pro	Gly	Glu
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420

425

430

Ser Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys Ser Gly Thr Ser
 435 440 445

Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro
 450 455 460

Ala His Phe Arg Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile
 465 470 475 480

Ser Gly Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp
 485 490 495

Ser Ser Asn Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Asn
 500 505 510

Arg

<210> 94
 <211> 517
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FAP BiTE amino acid sequence (OKT3)

<400> 94

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Val His Ser Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val
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Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu
 35 40 45

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Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Phe	Gly	Thr	Asp	Phe
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Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Ala	Glu	Asp	Val	Ala	Val	Tyr	Tyr
			100					105						110	
Cys	Gln	Gln	Tyr	Phe	Ser	Tyr	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys
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Gly	Gly	Ser	Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys
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Pro	Gly	Ala	Ser	Val	Lys	Val	Ser	Cys	Lys	Thr	Ser	Arg	Tyr	Thr	Phe
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Thr	Glu	Tyr	Thr	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Arg	Leu
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Glu	Trp	Ile	Gly	Gly	Ile	Asn	Pro	Asn	Asn	Gly	Ile	Pro	Asn	Tyr	Asn
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Gln	Lys	Phe	Lys	Gly	Arg	Val	Thr	Ile	Thr	Val	Asp	Thr	Ser	Ala	Ser
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Thr	Ala	Tyr	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val
225					230					235					240

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Tyr Tyr Cys Ala Arg Arg Arg Ile Ala Tyr Gly Tyr Asp Glu Gly His
245 250 255

Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
260 265 270

Gly Gly Gly Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala
275 280 285

Arg Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr
290 295 300

Phe Thr Arg Tyr Thr Met His Trp Val Lys Gln Arg Pro Gly Gln Gly
305 310 315 320

Leu Glu Trp Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr
325 330 335

Asn Gln Lys Phe Lys Asp Lys Ala Thr Leu Thr Thr Asp Lys Ser Ser
340 345 350

Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala
355 360 365

Val Tyr Tyr Cys Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr
370 375 380

Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser Gly Gly Gly Gly Ser
385 390 395 400

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Val Leu Thr Gln
405 410 415

Ser Pro Ala Ile Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr
420 425 430

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Cys Ser Ala Ser Ser Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys
435 440 445

Ser Gly Thr Ser Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala
450 455 460

Ser Gly Val Pro Ala His Phe Arg Gly Ser Gly Ser Gly Thr Ser Tyr
465 470 475 480

Ser Leu Thr Ile Ser Gly Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr
485 490 495

Cys Gln Gln Trp Ser Ser Asn Pro Phe Thr Phe Gly Ser Gly Thr Lys
500 505 510

Leu Glu Ile Asn Arg
515

<210> 95
<211> 519
<212> PRT
<213> Artificial Sequence

<220>
<223> FAP BiTE amino acid sequence (aCD3)

<400> 95

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
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Val His Ser Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val
20 25 30

Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu
35 40 45

Leu Tyr Ser Arg Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys

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50

55

60

Pro Gly Gln Pro Pro Lys Leu Leu Ile Phe Trp Ala Ser Thr Arg Glu
65 70 75 80

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Phe Gly Thr Asp Phe
85 90 95

Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr
100 105 110

Cys Gln Gln Tyr Phe Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys
115 120 125

Val Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
130 135 140

Gly Gly Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
145 150 155 160

Pro Gly Ala Ser Val Lys Val Ser Cys Lys Thr Ser Arg Tyr Thr Phe
165 170 175

Thr Glu Tyr Thr Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu
180 185 190

Glu Trp Ile Gly Gly Ile Asn Pro Asn Asn Gly Ile Pro Asn Tyr Asn
195 200 205

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

Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
225 230 235 240

Tyr Tyr Cys Ala Arg Arg Arg Ile Ala Tyr Gly Tyr Asp Glu Gly His

245

250

255

Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
 260 265 270

Gly Gly Gly Ser Asp Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys
 275 280 285

Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr
 290 295 300

Phe Thr Arg Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly
 305 310 315 320

Leu Glu Trp Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr
 325 330 335

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Thr Thr Asp Lys Ser Thr
 340 345 350

Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala
 355 360 365

Thr Tyr Tyr Cys Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr
 370 375 380

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Glu Gly Thr Ser
 385 390 395 400

Thr Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ala Asp Asp Ile Val
 405 410 415

Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala
 420 425 430

Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Tyr Met Asn Trp Tyr

435

440

445

Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Trp Ile Tyr Asp Thr Ser
 450 455 460

Lys Val Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly
 465 470 475 480

Thr Asp Tyr Ser Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala
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Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe Gly Gly
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Gly Thr Lys Val Glu Ile Lys
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<210> 96
 <211> 34198
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NG-611 Genome

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<220>
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Ser Leu

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<220>
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 <212> DNA
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<220>

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20 25 30

Val Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu
35 40 45

Trp Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val
50 55 60

Ala Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile
65 70 75 80

His Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg
85 90 95

Phe Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln
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Leu Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys
115 120 125

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Leu Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp
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Ser Pro Arg Pro Leu Glu Ala Thr Ala Pro
145 150

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20 25 30

Ala Cys Cys Phe Ser Tyr Thr Ser Arg Gln Ile Pro Gln Asn Phe Ile
35 40 45

Ala Asp Tyr Phe Glu Thr Ser Ser Gln Cys Ser Lys Pro Ser Val Ile
50 55 60

Phe Leu Thr Lys Arg Gly Arg Gln Val Cys Ala Asp Pro Ser Glu Glu
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Trp Val Gln Lys Tyr Val Ser Asp Leu Glu Leu Ser Ala
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<223> IFN alpha amino acid sequence

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Leu	Phe	Ser	Cys	Leu	Lys	Asp	Arg	His	Asp	Phe	Gly	Phe	Pro	Gln	Glu
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Gln	Gln	Leu	Asn	Asp	Leu	Glu	Ala	Cys	Val	Ile	Gln	Gly	Val	Gly	Val
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Thr	Glu	Thr	Pro	Leu	Met	Lys	Glu	Asp	Ser	Ile	Leu	Ala	Val	Arg	Lys
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Tyr	Phe	Gln	Arg	Ile	Thr	Leu	Tyr	Leu	Lys	Glu	Lys	Lys	Tyr	Ser	Pro
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Cys	Ala	Trp	Glu	Val	Val	Arg	Ala	Glu	Ile	Met	Arg	Ser	Phe	Ser	Leu
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Leu Ile Gly Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser
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Cys Ile Ser Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp
35 40 45

Leu Lys Gln Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile
50 55 60

Ala Thr Leu Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala
65 70 75 80

Asp Val Lys Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys
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Lys Lys Gln Lys Asn Gly Lys Lys His Gln Lys Lys Lys Val Leu Lys
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Val Arg Lys Ser Gln Arg Ser Arg Gln Lys Lys Thr Thr
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Ile Ser Ile Ser Asn Gln Pro Val Asn Pro Arg Ser Leu Glu Lys Leu
35 40 45

Glu Ile Ile Pro Ala Ser Gln Phe Cys Pro Arg Val Glu Ile Ile Ala
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Thr Met Lys Lys Lys Gly Glu Lys Arg Cys Leu Asn Pro Glu Ser Lys
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Ala Ile Lys Asn Leu Leu Lys Ala Val Ser Lys Glu Arg Ser Lys Arg
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catctataag gtatattata tagataga	35788

<210> 121

<211> 1540

<212> DNA

<213> Artificial Sequence

<220>

<223> NG-618 EpCam BiTE nucleic acid sequence

<400> 121

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tcatgcaagt cgtcacaaag cctgctgaac tccggcaatc agaagaatta cctgacctgg	180
taccagcaga aaccgggtca gccgcaaaaa ctgctgatct actgggcatc caccggggaa	240
agcgggggtcc ctgaccggtt cactggatca ggatcaggaa ccgactttac cctcacgatc	300
tcaagcgtcc aagccgagga cttggctgtg tactactgcc aaaatgacta ctcgtacccc	360
ctgactttcg gagctgggac caagctggag atcaaaggcg gcggagggtc cggaggaggg	420
gggtcgggag gggggggaag cgaggtgcag ctgctggaac agagcggagc cgagctgggtg	480
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ttcactcgct acactatgca ttgggtgaaa cagcggccgg gacaagggtt ggagtggatc	960
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<210> 122
 <211> 1557
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> NG-618 FAP BiTE nucleic acid sequence

<400> 122	
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aactgcaaga gctcgcagtc actgctatac agccggaatc agaaaaacta cctggcgtgg	180
taccagcaaa agccgggtca gcctccgaag ctgctgattt tctgggcctc aaccCgggaa	240
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tccttgagat cggaagatac cgcgacctac tactgtgcgc gctactacga tgaccattac	1140
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accgattaca gcttgaccat taactcgctg gaggcggagg atgcagcgac ctactactgt	1500
caacaatggt cctcgaaccc actcactttt gggggcggga ccaaggtgga gattaag	1557

<210> 123

<211> 3169

<212> DNA

<213> Artificial Sequence

<220>

<223> NG-618 Transgene cassette

<400> 123

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cggaggaggg gggtcgggag gggggggaag cgagggtgcag ctgctggaac agagcggagc	480
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<210> 124

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Flexible linker sequence

<400> 124

Ser Gly Gly Gly Gly Ser Glu
1 5

<210> 125

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Flexible linker sequence

<400> 125

Asp Lys Thr His Thr Ser
1 5

<210> 126

<211> 6

<212> PRT

<213> Artificial Sequence

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<223> Flexible linker sequence

<220>

<221> misc_feature

<222> (1)..(1)

<223> Ser is optional

<400> 126

Ser Gly Gly Gly Gly Ser
1 5

<210> 127

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Flexible linker sequence

<220>
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 <222> (1)..(1)
 <223> Ser is optional

<400> 127

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<210> 128
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<220>
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 <222> (1)..(1)
 <223> Ser is optional

<400> 128

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<210> 129
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<220>
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<400> 129

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

Gly Gly Gly Gly Ser
20

<210> 130
<211> 26
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<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> Ser is optional

<400> 130

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1 5 10 15

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
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<210> 131
<211> 11
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<400> 131

Ala Ala Ala Gly Ser Gly Gly Ala Ser Ala Ser
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<210> 132

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<211> 16
<212> PRT
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<220>
<223> Flexible linker sequence

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa can be any naturally occurring amino acid

<400> 132

Ala Ala Ala Gly Ser Gly Xaa Gly Gly Gly Ser Gly Ala Ser Ala Ser
1 5 10 15

<210> 133
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<220>
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<220>
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<222> (7)..(7)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (12)..(12)
<223> Xaa can be any naturally occurring amino acid

<400> 133

Ala Ala Ala Gly Ser Gly Xaa Gly Gly Gly Ser Xaa Gly Gly Gly Ser
1 5 10 15

Gly Ala Ser Ala Ser
20

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<210> 134
<211> 26
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<213> Artificial Sequence

<220>
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<220>
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<222> (7)..(7)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (12)..(12)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (17)..(17)
<223> Xaa can be any naturally occurring amino acid

<400> 134

Ala Ala Ala Gly Ser Gly Xaa Gly Gly Gly Ser Xaa Gly Gly Gly Ser
1 5 10 15

Xaa Gly Gly Gly Ser Gly Ala Ser Ala Ser
20 25

<210> 135
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Flexible linker sequence

<220>
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<222> (7)..(7)
<223> Xaa can be any naturally occurring amino acid

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<220>
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<222> (12)..(12)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (17)..(17)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (22)..(22)
<223> Xaa can be any naturally occurring amino acid

<400> 135

Ala Ala Ala Gly Ser Gly Xaa Gly Gly Gly Ser Xaa Gly Gly Gly Ser
1 5 10 15

Xaa Gly Gly Gly Ser Xaa Gly Gly Gly Ser Gly Ala Ser Ala Ser
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<210> 136
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Flexible linker sequence

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa can be any naturally occurring amino acid

<400> 136

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1 5 10

<210> 137
<211> 28
<212> PRT

<213> Artificial Sequence

<220>

<223> Flexible linker sequence

<400> 137

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1				5					10					15	

Thr	Gly	Ser	Ser	Pro	Gly	Pro	Thr	Gln	Ser	His	Tyr
			20					25			

<210> 138

<211> 11

<212> PRT

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<220>

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<400> 138

Ala	Thr	Thr	Thr	Gly	Ser	Ser	Pro	Gly	Pro	Thr
1				5					10	

<210> 139

<211> 6

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<400> 139

Ala	Thr	Thr	Thr	Gly	Ser
1				5	

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<212> PRT

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eolf-othd-000005

<220>

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<400> 140

Met	Pro	Ser	Leu	Ser	Gly	Val	Leu	Gln	Val	Arg	Tyr	Leu	Ser	Pro	Pro
1				5					10					15	

Asp Leu

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<211> 21

<212> PRT

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<400> 141

Glu	Pro	Ser	Gly	Pro	Ile	Ser	Thr	Ile	Asn	Ser	Pro	Pro	Ser	Lys	Glu
1				5					10					15	

Ser His Lys Ser Pro
20

<210> 142

<211> 15

<212> PRT

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<400> 142

Gly	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp
1				5					10					15

<210> 143

<211> 15

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<400> 143

Gly	Gly	Gly	Gly	Ile	Ala	Pro	Ser	Met	Val	Gly	Gly	Gly	Gly	Ser
1				5					10					15

<210> 144

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<400> 144

Gly	Gly	Gly	Gly	Lys	Val	Glu	Gly	Ala	Gly	Gly	Gly	Gly	Gly	Ser
1				5					10					15

<210> 145

<211> 15

<212> PRT

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<400> 145

Gly	Gly	Gly	Gly	Ser	Met	Lys	Ser	His	Asp	Gly	Gly	Gly	Gly	Ser
1				5					10					15

<210> 146

<211> 15

<212> PRT

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<220>

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<400> 146

eolf-othd-000005

Gly Gly Gly Gly Asn Leu Ile Thr Ile Val Gly Gly Gly Gly Ser
1 5 10 15

<210> 147
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 147

Gly Gly Gly Gly Val Val Pro Ser Leu Pro Gly Gly Gly Gly Ser
1 5 10 15

<210> 148
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
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<400> 148

Gly Gly Glu Lys Ser Ile Pro Gly Gly Gly Gly Ser
1 5 10

<210> 149
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Flexible linker sequence

<400> 149

Arg Pro Leu Ser Tyr Arg Pro Pro Phe Pro Phe Gly Phe Pro Ser Val
1 5 10 15

Arg Pro

<210> 150
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Flexible linker sequence

<400> 150

Tyr	Pro	Arg	Ser	Ile	Tyr	Ile	Arg	Arg	Arg	His	Pro	Ser	Pro	Ser	Leu
1				5				10						15	

Thr Thr

<210> 151
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 <212> PRT
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<220>
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<400> 151

Thr	Pro	Ser	His	Leu	Ser	His	Ile	Leu	Pro	Ser	Phe	Gly	Leu	Pro	Thr
1				5				10						15	

Phe Asn

<210> 152
 <211> 18
 <212> PRT
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<220>
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<400> 152

eolf-othd-000005

Arg Pro Val Ser Pro Phe Thr Phe Pro Arg Leu Ser Asn Ser Trp Leu
1 5 10 15

Pro Ala

<210> 153
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Flexible linker sequence

<400> 153

Ser Pro Ala Ala His Phe Pro Arg Ser Ile Pro Arg Pro Gly Pro Ile
1 5 10 15

Arg Thr

<210> 154
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
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<400> 154

Ala Pro Gly Pro Ser Ala Pro Ser His Arg Ser Leu Pro Ser Arg Ala
1 5 10 15

Phe Gly

<210> 155
<211> 18
<212> PRT

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<220>

<223> Flexible linker sequence

<400> 155

Pro	Arg	Asn	Ser	Ile	His	Phe	Leu	His	Pro	Leu	Leu	Val	Ala	Pro	Leu
1				5				10						15	

Gly Ala

<210> 156

<211> 18

<212> PRT

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<220>

<223> Flexible linker sequence

<400> 156

Asn	Pro	Ser	Leu	Asn	Pro	Pro	Ser	Tyr	Leu	His	Arg	Ala	Pro	Ser	Arg
1				5				10						15	

Ile Ser

<210> 157

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Flexible linker sequence

<400> 157

Leu	Pro	Trp	Arg	Thr	Ser	Leu	Leu	Pro	Ser	Leu	Pro	Leu	Arg	Arg	Arg
1				5				10						15	

Pro

<210> 158
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Flexible linker sequence

<400> 158

Pro	Pro	Leu	Phe	Ala	Lys	Gly	Pro	Val	Gly	Leu	Leu	Ser	Arg	Ser	Phe
1				5					10					15	

Pro Pro

<210> 159
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Flexible linker sequence

<400> 159

Val	Pro	Pro	Ala	Pro	Val	Val	Ser	Leu	Arg	Ser	Ala	His	Ala	Arg	Pro
1				5					10					15	

Pro Tyr

<210> 160
 <211> 17
 <212> PRT
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<220>
 <223> Flexible linker sequence

<400> 160

eolf-othd-000005

Leu Arg Pro Thr Pro Pro Arg Val Arg Ser Tyr Thr Cys Cys Pro Thr
1 5 10 15

Pro

<210> 161
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Flexible linker sequence

<400> 161

Pro Asn Val Ala His Val Leu Pro Leu Leu Thr Val Pro Trp Asp Asn
1 5 10 15

Leu Arg

<210> 162
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Flexible linker sequence

<400> 162

Cys Asn Pro Leu Leu Pro Leu Cys Ala Arg Ser Pro Ala Val Arg Thr
1 5 10 15

Phe Pro

<210> 163
<211> 11
<212> PRT

<213> Artificial Sequence

<220>

<223> rigid linker

<400> 163

Gly	Ala	Pro	Ala	Pro	Ala	Ala	Pro	Ala	Pro	Ala
1				5				10		

<210> 164

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> rigid linker

<400> 164

Pro	Pro	Pro	Pro
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<210> 165

<400> 165

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<210> 166

<211> 8

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<213> Artificial Sequence

<220>

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<220>

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<222> (7)..(7)

<223> Xaa can be any naturally occurring amino acid

<220>

<221> misc_feature

<222> (8)..(8)

<223> Xaa can be any naturally occurring amino acid

<400> 166

Asp Lys Thr His Thr Cys Xaa Xaa
1 5

<210> 167

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 167

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
1 5 10

<210> 168

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 168

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Thr Cys Pro Pro Cys
1 5 10 15

Pro Ala

<210> 169

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 169

eolf-othd-000005

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Thr Cys Pro Pro Cys
1 5 10 15

Pro Ala Thr Cys Pro Pro Cys Pro Ala
20 25

<210> 170
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequences

<400> 170

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Gly Lys Pro Thr Leu
1 5 10 15

Tyr Asn Ser Leu Val Met Ser Asp Thr Ala Gly Thr Cys Tyr
20 25 30

<210> 171
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 171

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Gly Lys Pro Thr His
1 5 10 15

Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr Cys Tyr
20 25 30

<210> 172
<211> 15
<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 172

Asp	Lys	Thr	His	Thr	Cys	Cys	Val	Glu	Cys	Pro	Pro	Cys	Pro	Ala
1				5				10					15	

<210> 173

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 173

Asp	Lys	Thr	His	Thr	Cys	Pro	Arg	Cys	Pro	Glu	Pro	Lys	Ser	Cys	Asp
1				5				10						15	

Thr	Pro	Pro	Pro	Cys	Pro	Arg	Cys	Pro	Ala
			20				25		

<210> 174

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 174

Asp	Lys	Thr	His	Thr	Cys	Pro	Ser	Cys	Pro	Ala
1				5				10		

<210> 175

<211> 8

<212> PRT

<213> Artificial Sequence

eolf-othd-000005

<220>

<223> Linker sequence

<220>

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<223> Xaa can be any naturally occurring amino acid

<220>

<221> misc_feature

<222> (8)..(8)

<223> Xaa can be any naturally occurring amino acid

<400> 175

Asp Lys Thr His Thr Ser Xaa Xaa

1 5

<210> 176

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 176

Asp Lys Thr His Thr Cys Pro Pro Ser Pro Ala

1 5 10

<210> 177

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 177

Asp Lys Thr His Thr Ser Pro Pro Cys Pro Ala

1 5 10

eolf-othd-000005

<210> 178
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 178

Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala
1 5 10

<210> 179
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 179

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Thr Cys Pro Pro Ser
1 5 10 15

Pro Ala

<210> 180
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 180

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Thr Ser Pro Pro Cys
1 5 10 15

Pro Ala

<210> 181
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 181

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Cys	Pro	Pro	Cys
1				5					10					15	

Pro Ala

<210> 182
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 182

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Cys	Pro	Ala	Thr	Cys	Pro	Pro	Cys
1				5					10					15	

Pro Ala

<210> 183
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 183

eolf-othd-000005

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Thr Ser Pro Pro Ser
1 5 10 15

Pro Ala

<210> 184
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 184

Asp Lys Thr His Thr Cys Pro Pro Ser Pro Ala Thr Cys Pro Pro Ser
1 5 10 15

Pro Ala

<210> 185
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 185

Asp Lys Thr His Thr Ser Pro Pro Cys Pro Ala Thr Cys Pro Pro Ser
1 5 10 15

Pro Ala

<210> 186
<211> 18
<212> PRT
<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 186

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Ser	Pro	Ala	Thr	Cys	Pro	Pro	Cys
1				5				10					15		

Pro Ala

<210> 187

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 187

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Cys	Pro	Ala	Thr	Ser	Pro	Pro	Cys
1				5				10					15		

Pro Ala

<210> 188

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 188

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Cys
1				5				10					15		

Pro Ala

<210> 189
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 189

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Ser
1				5				10						15	

Pro Ala

<210> 190
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 190

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Ser
1				5				10						15	

Pro Ala

<210> 191
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 191

eolf-othd-000005

Asp Lys Thr His Thr Ser Pro Pro Cys Pro Ala Thr Ser Pro Pro Ser
1 5 10 15

Pro Ala

<210> 192
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 192

Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala Thr Cys Pro Pro Ser
1 5 10 15

Pro Ala

<210> 193
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 193

Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala Thr Ser Pro Pro Cys
1 5 10 15

Pro Ala

<210> 194
<211> 25
<212> PRT
<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 194

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Thr	Cys	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Ser	Pro	Ala
			20					25

<210> 195

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 195

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Thr	Cys	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Ser	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 196

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 196

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Thr	Cys	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 197
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 197

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Thr	Ser	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 198
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 198

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Cys	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 199
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 199

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Asp Lys Thr His Thr Ser Pro Pro Cys Pro Ala Thr Cys Pro Pro Cys
1 5 10 15

Pro Ala Thr Cys Pro Pro Cys Pro Ala
20 25

<210> 200
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 200

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Thr Cys Pro Pro Cys
1 5 10 15

Pro Ala Thr Ser Pro Pro Ser Pro Ala
20 25

<210> 201
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 201

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Thr Cys Pro Pro Ser
1 5 10 15

Pro Ala Thr Cys Pro Pro Ser Pro Ala
20 25

<210> 202
<211> 25
<212> PRT
<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 202

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Thr	Ser	Pro	Pro	Cys
1				5				10						15	

Pro	Ala	Thr	Cys	Pro	Pro	Ser	Pro	Ala
			20					25

<210> 203

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 203

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Cys	Pro	Pro	Cys
1				5				10						15	

Pro	Ala	Thr	Cys	Pro	Pro	Ser	Pro	Ala
			20					25

<210> 204

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 204

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Cys	Pro	Ala	Thr	Cys	Pro	Pro	Cys
1				5				10						15	

Pro	Ala	Thr	Cys	Pro	Pro	Ser	Pro	Ala
			20					25

<210> 205
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 205

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Thr	Cys	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Ser	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 206
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 206

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Thr	Ser	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Ser	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 207
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 207

eolf-othd-000005

Asp Lys Thr His Thr Cys Pro Pro Ser Pro Ala Thr Cys Pro Pro Cys
1 5 10 15

Pro Ala Thr Ser Pro Pro Cys Pro Ala
20 25

<210> 208
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 208

Asp Lys Thr His Thr Ser Pro Pro Cys Pro Ala Thr Cys Pro Pro Cys
1 5 10 15

Pro Ala Thr Ser Pro Pro Cys Pro Ala
20 25

<210> 209
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 209

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Thr Ser Pro Pro Ser
1 5 10 15

Pro Ala Thr Cys Pro Pro Cys Pro Ala
20 25

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

<220>

<223> Linker sequence

<400> 210

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Cys	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 211

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 211

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Cys	Pro	Ala	Thr	Cys	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 212

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 212

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Cys	Pro	Ala
			20					25

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

<220>
 <223> Linker sequence

<400> 213

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Cys	Pro	Ala	Thr	Ser	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 214
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 214

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Ser	Pro	Ala	Thr	Cys	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 215
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 215

eolf-othd-000005

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Thr Cys Pro Pro Ser
1 5 10 15

Pro Ala Thr Ser Pro Pro Ser Pro Ala
20 25

<210> 216
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 216

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Thr Ser Pro Pro Cys
1 5 10 15

Pro Ala Thr Ser Pro Pro Ser Pro Ala
20 25

<210> 217
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 217

Asp Lys Thr His Thr Cys Pro Pro Ser Pro Ala Thr Cys Pro Pro Cys
1 5 10 15

Pro Ala Thr Ser Pro Pro Ser Pro Ala
20 25

<210> 218
<211> 25
<212> PRT
<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 218

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Cys	Pro	Ala	Thr	Cys	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Ser	Pro	Pro	Ser	Pro	Ala
			20					25

<210> 219

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 219

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Thr	Ser	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Ser	Pro	Ala
			20					25

<210> 220

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 220

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Cys	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Ser	Pro	Ala
			20					25

<210> 221
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 221

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Cys	Pro	Ala	Thr	Cys	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Ser	Pro	Ala
			20					25

<210> 222
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 222

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Ser	Pro	Ala
			20					25

<210> 223
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 223

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Asp Lys Thr His Thr Ser Pro Pro Cys Pro Ala Thr Ser Pro Pro Cys
1 5 10 15

Pro Ala Thr Cys Pro Pro Ser Pro Ala
20 25

<210> 224
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 224

Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala Thr Ser Pro Pro Cys
1 5 10 15

Pro Ala Thr Cys Pro Pro Cys Pro Ala
20 25

<210> 225
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 225

Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala Thr Cys Pro Pro Ser
1 5 10 15

Pro Ala Thr Cys Pro Pro Cys Pro Ala
20 25

<210> 226
<211> 25
<212> PRT
<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 226

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Ser	Pro	Ala	Thr	Cys	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Ser	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 227

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 227

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Ser	Pro	Ala	Thr	Cys	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Ser	Pro	Ala
			20					25

<210> 228

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 228

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 229
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 229

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Ser	Pro	Pro	Cys	Pro	Ala
			20				25	

<210> 230
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 230

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Cys	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Ser	Pro	Pro	Ser	Pro	Ala
			20				25	

<210> 231
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 231

eolf-othd-000005

Asp Lys Thr His Thr Cys Pro Pro Ser Pro Ala Thr Ser Pro Pro Ser
1 5 10 15

Pro Ala Thr Cys Pro Pro Ser Pro Ala
20 25

<210> 232
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 232

Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala Thr Ser Pro Pro Cys
1 5 10 15

Pro Ala Thr Cys Pro Pro Ser Pro Ala
20 25

<210> 233
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 233

Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala Thr Ser Pro Pro Ser
1 5 10 15

Pro Ala Thr Cys Pro Pro Cys Pro Ala
20 25

<210> 234
<211> 25
<212> PRT
<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 234

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Ser	Pro	Pro	Cys	Pro	Ala
			20				25	

<210> 235

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 235

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Cys
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Ser	Pro	Ala
			20				25	

<210> 236

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 236

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Ser	Pro	Pro	Cys	Pro	Ala
			20				25	

<210> 237
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 237

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Ser	Pro	Pro	Ser	Pro	Ala
			20					25

<210> 238
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 238

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Ser	Pro	Pro	Cys	Pro	Ala
			20					25

<210> 239
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 239

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Asp Lys Thr His Thr Ser Pro Pro Cys Pro Ala Thr Ser Pro Pro Ser
1 5 10 15

Pro Ala Thr Ser Pro Pro Ser Pro Ala
20 25

<210> 240
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 240

Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala Thr Cys Pro Pro Ser
1 5 10 15

Pro Ala Thr Ser Pro Pro Ser Pro Ala
20 25

<210> 241
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 241

Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala Thr Ser Pro Pro Cys
1 5 10 15

Pro Ala Thr Ser Pro Pro Ser Pro Ala
20 25

<210> 242
<211> 25
<212> PRT
<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 242

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Cys	Pro	Pro	Ser	Pro	Ala
		20					25	

<210> 243

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 243

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Ser	Pro	Ala	Thr	Ser	Pro	Pro	Ser
1				5				10					15		

Pro	Ala	Thr	Ser	Pro	Pro	Ser	Pro	Ala
		20					25	

<210> 244

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 244

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Gly	Lys	Pro	Thr	Leu
1				5				10					15		

Tyr	Asn	Ser	Leu	Val	Met	Ser	Asp	Thr	Ala	Gly	Thr	Ser	Tyr
		20					25					30	

<210> 245
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 245

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Gly	Lys	Pro	Thr	Leu
1				5				10					15		

Tyr	Asn	Ser	Leu	Val	Met	Ser	Asp	Thr	Ala	Gly	Thr	Cys	Tyr
			20					25				30	

<210> 246
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 246

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Cys	Pro	Ala	Gly	Lys	Pro	Thr	Leu
1				5				10					15		

Tyr	Asn	Ser	Leu	Val	Met	Ser	Asp	Thr	Ala	Gly	Thr	Cys	Tyr
			20					25				30	

<210> 247
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 247

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Asp Lys Thr His Thr Cys Pro Pro Ser Pro Ala Gly Lys Pro Thr Leu
1 5 10 15

Tyr Asn Ser Leu Val Met Ser Asp Thr Ala Gly Thr Ser Tyr
20 25 30

<210> 248
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 248

Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala Gly Lys Pro Thr Leu
1 5 10 15

Tyr Asn Ser Leu Val Met Ser Asp Thr Ala Gly Thr Cys Tyr
20 25 30

<210> 249
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 249

Asp Lys Thr His Thr Ser Pro Pro Cys Pro Ala Gly Lys Pro Thr Leu
1 5 10 15

Tyr Asn Ser Leu Val Met Ser Asp Thr Ala Gly Thr Ser Tyr
20 25 30

<210> 250
<211> 30
<212> PRT
<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 250

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Ser	Pro	Ala	Gly	Lys	Pro	Thr	Leu
1				5					10					15	

Tyr	Asn	Ser	Leu	Val	Met	Ser	Asp	Thr	Ala	Gly	Thr	Ser	Tyr
			20					25					30

<210> 251

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 251

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Gly	Lys	Pro	Thr	His
1				5					10					15	

Val	Asn	Val	Ser	Val	Val	Met	Ala	Glu	Val	Asp	Gly	Thr	Ser	Tyr
			20					25					30	

<210> 252

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 252

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Gly	Lys	Pro	Thr	His
1				5					10					15	

Val	Asn	Val	Ser	Val	Val	Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr
			20					25					30	

<210> 253
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 253

Asp	Lys	Thr	His	Thr	Ser	Pro	Pro	Cys	Pro	Ala	Gly	Lys	Pro	Thr	His
1				5				10						15	

Val	Asn	Val	Ser	Val	Val	Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr
			20					25					30	

<210> 254
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 254

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Ser	Pro	Ala	Gly	Lys	Pro	Thr	His
1				5				10						15	

Val	Asn	Val	Ser	Val	Val	Met	Ala	Glu	Val	Asp	Gly	Thr	Ser	Tyr
			20					25					30	

<210> 255
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 255

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Asp Lys Thr His Thr Ser Pro Pro Cys Pro Ala Gly Lys Pro Thr His
1 5 10 15

Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr Ser Tyr
20 25 30

<210> 256
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 256

Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala Gly Lys Pro Thr His
1 5 10 15

Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr Cys Tyr
20 25 30

<210> 257
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 257

Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala Gly Lys Pro Thr His
1 5 10 15

Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr Ser Tyr
20 25 30

<210> 258
<211> 15
<212> PRT
<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 258

Asp	Lys	Thr	His	Thr	Cys	Cys	Val	Glu	Cys	Pro	Pro	Ser	Pro	Ala
1				5					10					15

<210> 259

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 259

Asp	Lys	Thr	His	Thr	Cys	Cys	Val	Glu	Ser	Pro	Pro	Cys	Pro	Ala
1				5					10					15

<210> 260

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 260

Asp	Lys	Thr	His	Thr	Cys	Ser	Val	Glu	Cys	Pro	Pro	Cys	Pro	Ala
1				5					10					15

<210> 261

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 261

eolf-othd-000005

Asp	Lys	Thr	His	Thr	Ser	Cys	Val	Glu	Cys	Pro	Pro	Cys	Pro	Ala
1				5					10					15

<210> 262
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 262

Asp	Lys	Thr	His	Thr	Cys	Cys	Val	Glu	Ser	Pro	Pro	Ser	Pro	Ala
1				5					10					15

<210> 263
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 263

Asp	Lys	Thr	His	Thr	Cys	Ser	Val	Glu	Cys	Pro	Pro	Ser	Pro	Ala
1				5					10					15

<210> 264
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker sequence

<400> 264

Asp	Lys	Thr	His	Thr	Ser	Cys	Val	Glu	Cys	Pro	Pro	Ser	Pro	Ala
1				5					10					15

<210> 265
 <211> 15

eolf-othd-000005

<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 265

Asp	Lys	Thr	His	Thr	Cys	Ser	Val	Glu	Ser	Pro	Pro	Cys	Pro	Ala
1				5					10					15

<210> 266
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 266

Asp	Lys	Thr	His	Thr	Ser	Ser	Val	Glu	Cys	Pro	Pro	Cys	Pro	Ala
1				5					10					15

<210> 267
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 267

Asp	Lys	Thr	His	Thr	Cys	Ser	Val	Glu	Ser	Pro	Pro	Ser	Pro	Ala
1				5					10					15

<210> 268
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

eolf-othd-000005

<400> 268

Asp	Lys	Thr	His	Thr	Ser	Ser	Val	Glu	Cys	Pro	Pro	Ser	Pro	Ala
1				5					10					15

<210> 269

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 269

Asp	Lys	Thr	His	Thr	Ser	Ser	Val	Glu	Ser	Pro	Pro	Cys	Pro	Ala
1				5					10					15

<210> 270

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 270

Asp	Lys	Thr	His	Thr	Ser	Ser	Val	Glu	Ser	Pro	Pro	Ser	Pro	Ala
1				5					10					15

<210> 271

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 271

Asp	Lys	Thr	His	Thr	Cys	Pro	Arg	Cys	Pro	Glu	Pro	Lys	Ser	Cys	Asp
1				5					10					15	

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Thr Pro Pro Pro Cys Pro Arg Ser Pro Ala
20 25

<210> 272
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 272

Asp Lys Thr His Thr Cys Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp
1 5 10 15

Thr Pro Pro Pro Ser Pro Arg Cys Pro Ala
20 25

<210> 273
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 273

Asp Lys Thr His Thr Cys Pro Arg Cys Pro Glu Pro Lys Ser Ser Asp
1 5 10 15

Thr Pro Pro Pro Cys Pro Arg Cys Pro Ala
20 25

<210> 274
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

eolf-othd-000005

<400> 274

Asp Lys Thr His Thr Cys Pro Arg Ser Pro Glu Pro Lys Ser Cys Asp
1 5 10 15

Thr Pro Pro Pro Cys Pro Arg Cys Pro Ala
20 25

<210> 275

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 275

Asp Lys Thr His Thr Ser Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp
1 5 10 15

Thr Pro Pro Pro Cys Pro Arg Cys Pro Ala
20 25

<210> 276

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 276

Asp Lys Thr His Thr Cys Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp
1 5 10 15

Thr Pro Pro Pro Ser Pro Arg Ser Pro Ala
20 25

<210> 277

<211> 26

eolf-othd-000005

<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 277

Asp	Lys	Thr	His	Thr	Cys	Pro	Arg	Cys	Pro	Glu	Pro	Lys	Ser	Ser	Asp
1				5				10						15	

Thr	Pro	Pro	Pro	Cys	Pro	Arg	Ser	Pro	Ala
			20				25		

<210> 278
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 278

Asp	Lys	Thr	His	Thr	Cys	Pro	Arg	Ser	Pro	Glu	Pro	Lys	Ser	Cys	Asp
1				5				10						15	

Thr	Pro	Pro	Pro	Cys	Pro	Arg	Ser	Pro	Ala
			20				25		

<210> 279
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 279

Asp	Lys	Thr	His	Thr	Ser	Pro	Arg	Cys	Pro	Glu	Pro	Lys	Ser	Cys	Asp
1				5				10						15	

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Thr Pro Pro Pro Cys Pro Arg Ser Pro Ala
20 25

<210> 280
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 280

Asp Lys Thr His Thr Cys Pro Arg Cys Pro Glu Pro Lys Ser Ser Asp
1 5 10 15

Thr Pro Pro Pro Ser Pro Arg Ser Pro Ala
20 25

<210> 281
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 281

Asp Lys Thr His Thr Cys Pro Arg Ser Pro Glu Pro Lys Ser Cys Asp
1 5 10 15

Thr Pro Pro Pro Ser Pro Arg Ser Pro Ala
20 25

<210> 282
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

eolf-othd-000005

<400> 282

Asp Lys Thr His Thr Ser Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp
1 5 10 15

Thr Pro Pro Pro Ser Pro Arg Ser Pro Ala
20 25

<210> 283

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 283

Asp Lys Thr His Thr Cys Pro Arg Ser Pro Glu Pro Lys Ser Ser Asp
1 5 10 15

Thr Pro Pro Pro Cys Pro Arg Ser Pro Ala
20 25

<210> 284

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 284

Asp Lys Thr His Thr Ser Pro Arg Cys Pro Glu Pro Lys Ser Ser Asp
1 5 10 15

Thr Pro Pro Pro Cys Pro Arg Ser Pro Ala
20 25

<210> 285

<211> 26

eolf-othd-000005

<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 285

Asp	Lys	Thr	His	Thr	Ser	Pro	Arg	Ser	Pro	Glu	Pro	Lys	Ser	Cys	Asp
1				5				10						15	

Thr	Pro	Pro	Pro	Cys	Pro	Arg	Ser	Pro	Ala
			20				25		

<210> 286
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 286

Asp	Lys	Thr	His	Thr	Cys	Pro	Arg	Ser	Pro	Glu	Pro	Lys	Ser	Ser	Asp
1				5				10						15	

Thr	Pro	Pro	Pro	Ser	Pro	Arg	Cys	Pro	Ala
			20				25		

<210> 287
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 287

Asp	Lys	Thr	His	Thr	Ser	Pro	Arg	Cys	Pro	Glu	Pro	Lys	Ser	Ser	Asp
1				5				10						15	

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Thr Pro Pro Pro Ser Pro Arg Cys Pro Ala
20 25

<210> 288
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 288

Asp Lys Thr His Thr Ser Pro Arg Ser Pro Glu Pro Lys Ser Ser Asp
1 5 10 15

Thr Pro Pro Pro Cys Pro Arg Cys Pro Ala
20 25

<210> 289
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 289

Asp Lys Thr His Thr Cys Pro Arg Ser Pro Glu Pro Lys Ser Ser Asp
1 5 10 15

Thr Pro Pro Pro Ser Pro Arg Ser Pro Ala
20 25

<210> 290
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

eolf-othd-000005

<400> 290

Asp Lys Thr His Thr Ser Pro Arg Ser Pro Glu Pro Lys Ser Ser Asp
1 5 10 15

Thr Pro Pro Pro Cys Pro Arg Ser Pro Ala
20 25

<210> 291

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 291

Asp Lys Thr His Thr Ser Pro Arg Ser Pro Glu Pro Lys Ser Cys Asp
1 5 10 15

Thr Pro Pro Pro Ser Pro Arg Ser Pro Ala
20 25

<210> 292

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 292

Asp Lys Thr His Thr Ser Pro Arg Cys Pro Glu Pro Lys Ser Ser Asp
1 5 10 15

Thr Pro Pro Pro Ser Pro Arg Ser Pro Ala
20 25

<210> 293

<211> 26

eolf-othd-000005

<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 293

Asp	Lys	Thr	His	Thr	Ser	Pro	Arg	Ser	Pro	Glu	Pro	Lys	Ser	Ser	Asp
1				5				10					15		

Thr	Pro	Pro	Pro	Ser	Pro	Arg	Ser	Pro	Ala
			20				25		

<210> 294
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 294

Asp	Lys	Thr	His	Thr	Cys	Pro	Ser	Ser	Pro	Ala
1				5				10		

<210> 295
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 295

Asp	Lys	Thr	His	Thr	Ser	Pro	Ser	Cys	Pro	Ala
1				5				10		

<210> 296
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Linker sequence

<400> 296

Asp Lys Thr His Thr Ser Pro Ser Ser Pro Ala
1 5 10

<210> 297

<211> 4

<212> PRT

<213> Artificial Sequence

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