

366149_1.txt
SEQUENCE LISTING

<110> bluebird bio, Inc.
Leung, Wai-Hang
Jarjour, Jordan

<120> NKG2D DARIC RECEPTORS

<130> BLBD-091/02W0 315698-2770

<150> US 62/730,926

<151> 2018-09-13

<150> US 62/598,902

<151> 2017-12-14

<160> 48

<170> PatentIn version 3.5

<210> 1

<211> 302

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized FRB T2098L-CD8aTM-CD137-CD3z NKG2D DARIC signaling
component

<400> 1

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

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr Gly Arg Asp

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

260

265

270

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

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

<210> 2

<211> 323

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized FRB T2098L-CD8aTM-CD137-CD3z NKG2D DARIC signaling component

<400> 2

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

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
 20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
 35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
 50 55 60

Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr Gly Arg Asp
 65 70 75 80

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
 85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
 100 105 110

366149_1.txt

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

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

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

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

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

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

366149_1.txt

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly

<210> 3
<211> 303
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthesized NKG2D-FKBP12-CD4TM NKG2D DARIC binding component

<400> 3

Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp
1 5 10 15

Val Pro Gly Ser Thr Gly Phe Asn Gln Glu Val Gln Ile Pro Leu Thr
20 25 30

Glu Ser Tyr Cys Gly Pro Cys Pro Lys Asn Trp Ile Cys Tyr Lys Asn
35 40 45

Asn Cys Tyr Gln Phe Phe Asp Glu Ser Lys Asn Trp Tyr Glu Ser Gln
50 55 60

Ala Ser Cys Met Ser Gln Asn Ala Ser Leu Leu Lys Val Tyr Ser Lys
65 70 75 80

Glu Asp Gln Asp Leu Leu Lys Leu Val Lys Ser Tyr His Trp Met Gly
85 90 95

Leu Val His Ile Pro Thr Asn Gly Ser Trp Gln Trp Glu Asp Gly Ser
100 105 110

366149_1.txt

Ile Leu Ser Pro Asn Leu Leu Thr Ile Ile Glu Met Gln Lys Gly Asp
115 120 125

Cys Ala Leu Tyr Ala Ser Ser Phe Lys Gly Tyr Ile Glu Asn Cys Ser
130 135 140

Thr Pro Asn Thr Tyr Ile Cys Met Gln Arg Thr Val Gly Gly Gly Gly
145 150 155 160

Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe
165 170 175

Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu
180 185 190

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

Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val
210 215 220

Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp
225 230 235 240

Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala
245 250 255

Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met
260 265 270

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

Leu Gly Ile Phe Phe Cys Val Arg Cys Arg His Arg Arg Arg Gln
290 295 300

366149_1.txt

<210> 4
 <211> 301
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Synthesized NKG2D-FKBP12-CD4TM NKG2D DARIC binding component
 <400> 4

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
 1 5 10 15

Gly Ser Thr Gly Phe Asn Gln Glu Val Gln Ile Pro Leu Thr Glu Ser
 20 25 30

Tyr Cys Gly Pro Cys Pro Lys Asn Trp Ile Cys Tyr Lys Asn Asn Cys
 35 40 45

Tyr Gln Phe Phe Asp Glu Ser Lys Asn Trp Tyr Glu Ser Gln Ala Ser
 50 55 60

Cys Met Ser Gln Asn Ala Ser Leu Leu Lys Val Tyr Ser Lys Glu Asp
 65 70 75 80

Gln Asp Leu Leu Lys Leu Val Lys Ser Tyr His Trp Met Gly Leu Val
 85 90 95

His Ile Pro Thr Asn Gly Ser Trp Gln Trp Glu Asp Gly Ser Ile Leu
 100 105 110

Ser Pro Asn Leu Leu Thr Ile Ile Glu Met Gln Lys Gly Asp Cys Ala
 115 120 125

Leu Tyr Ala Ser Ser Phe Lys Gly Tyr Ile Glu Asn Cys Ser Thr Pro
 130 135 140

Asn Thr Tyr Ile Cys Met Gln Arg Thr Val Gly Gly Gly Gly Ser Gly
 145 150 155 160

366149_1.txt

Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys
165 170 175

Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp Gly
180 185 190

Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met
195 200 205

Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala Gln
210 215 220

Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr Ala
225 230 235 240

Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr Leu
245 250 255

Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met Ala Leu
260 265 270

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

Ile Phe Phe Cys Val Arg Cys Arg His Arg Arg Arg Gln
290 295 300

<210> 5

<211> 626

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized NKG2D DARIC polyprotein comprising an NKG2D DARIC binding component and an NKG2D DARIC signaling component separated by a viral P2A domain

366149_1.txt

<400> 5

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

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
 20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
 35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
 50 55 60

Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr Gly Arg Asp
 65 70 75 80

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
 85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
 100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
 115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
 130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
 145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
 165 170 175

Cys Arg Phe Pro Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
 180 185 190

366149_1.txt

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

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

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

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

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

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Phe Asn Gln Glu Val Gln Ile
340 345 350

Pro Leu Thr Glu Ser Tyr Cys Gly Pro Cys Pro Lys Asn Trp Ile Cys
355 360 365

Tyr Lys Asn Asn Cys Tyr Gln Phe Phe Asp Glu Ser Lys Asn Trp Tyr
370 375 380

366149_1.txt

Glu Ser Gln Ala Ser Cys Met Ser Gln Asn Ala Ser Leu Leu Lys Val
385 390 395 400

Tyr Ser Lys Glu Asp Gln Asp Leu Leu Lys Leu Val Lys Ser Tyr His
405 410 415

Trp Met Gly Leu Val His Ile Pro Thr Asn Gly Ser Trp Gln Trp Glu
420 425 430

Asp Gly Ser Ile Leu Ser Pro Asn Leu Leu Thr Ile Ile Glu Met Gln
435 440 445

Lys Gly Asp Cys Ala Leu Tyr Ala Ser Ser Phe Lys Gly Tyr Ile Glu
450 455 460

Asn Cys Ser Thr Pro Asn Thr Tyr Ile Cys Met Gln Arg Thr Val Gly
465 470 475 480

Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly
485 490 495

Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly
500 505 510

Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys
515 520 525

Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu
530 535 540

Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile
545 550 555 560

Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro
565 570 575

366149_1.txt

Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly
580 585 590

Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu
595 600 605

Phe Ile Gly Leu Gly Ile Phe Phe Cys Val Arg Cys Arg His Arg Arg
610 615 620

Arg Gln
625

<210> 6
<211> 333
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthesized NKG2D-FKBP12-CD4TM-OX40 NKG2D DARIC binding component

<400> 6

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

Gly Ser Thr Gly Phe Asn Gln Glu Val Gln Ile Pro Leu Thr Glu Ser
20 25 30

Tyr Cys Gly Pro Cys Pro Lys Asn Trp Ile Cys Tyr Lys Asn Asn Cys
35 40 45

Tyr Gln Phe Phe Asp Glu Ser Lys Asn Trp Tyr Glu Ser Gln Ala Ser
50 55 60

Cys Met Ser Gln Asn Ala Ser Leu Leu Lys Val Tyr Ser Lys Glu Asp
65 70 75 80

366149_1.txt

Gln Asp Leu Leu Lys Leu Val Lys Ser Tyr His Trp Met Gly Leu Val
85 90 95

His Ile Pro Thr Asn Gly Ser Trp Gln Trp Glu Asp Gly Ser Ile Leu
100 105 110

Ser Pro Asn Leu Leu Thr Ile Ile Glu Met Gln Lys Gly Asp Cys Ala
115 120 125

Leu Tyr Ala Ser Ser Phe Lys Gly Tyr Ile Glu Asn Cys Ser Thr Pro
130 135 140

Asn Thr Tyr Ile Cys Met Gln Arg Thr Val Gly Gly Gly Gly Ser Gly
145 150 155 160

Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys
165 170 175

Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp Gly
180 185 190

Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met
195 200 205

Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala Gln
210 215 220

Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr Ala
225 230 235 240

Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr Leu
245 250 255

Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met Ala Leu
260 265 270

366149_1.txt

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

Ile Phe Phe Ala Leu Tyr Leu Leu Arg Arg Asp Gln Arg Leu Pro Pro
290 295 300

Asp Ala His Lys Pro Pro Gly Gly Gly Ser Phe Arg Thr Pro Ile Gln
305 310 315 320

Glu Glu Gln Ala Asp Ala His Ser Thr Leu Ala Lys Ile
325 330

<210> 7

<211> 465

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized NKG2D-FKBP12-CD4TM-TNFR2 NKG2D DARIC binding
component

<400> 7

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

Gly Ser Thr Gly Phe Asn Gln Glu Val Gln Ile Pro Leu Thr Glu Ser
20 25 30

Tyr Cys Gly Pro Cys Pro Lys Asn Trp Ile Cys Tyr Lys Asn Asn Cys
35 40 45

Tyr Gln Phe Phe Asp Glu Ser Lys Asn Trp Tyr Glu Ser Gln Ala Ser
50 55 60

Cys Met Ser Gln Asn Ala Ser Leu Leu Lys Val Tyr Ser Lys Glu Asp
65 70 75 80

Gln Asp Leu Leu Lys Leu Val Lys Ser Tyr His Trp Met Gly Leu Val

His Ile Pro Thr Asn Gly Ser Trp Gln Trp Glu Asp Gly Ser Ile Leu
 100 105 110

Ser Pro Asn Leu Leu Thr Ile Ile Glu Met Gln Lys Gly Asp Cys Ala
 115 120 125

Leu Tyr Ala Ser Ser Phe Lys Gly Tyr Ile Glu Asn Cys Ser Thr Pro
 130 135 140

Asn Thr Tyr Ile Cys Met Gln Arg Thr Val Gly Gly Gly Gly Ser Gly
 145 150 155 160

Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys
 165 170 175

Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp Gly
 180 185 190

Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met
 195 200 205

Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala Gln
 210 215 220

Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr Ala
 225 230 235 240

Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr Leu
 245 250 255

Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met Ala Leu
 260 265 270

Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile Gly Leu Gly

366149_1.txt

275

280

285

Ile Phe Phe Lys Lys Lys Pro Leu Cys Leu Gln Arg Glu Ala Lys Val
 290 295 300

Pro His Leu Pro Ala Asp Lys Ala Arg Gly Thr Gln Gly Pro Glu Gln
 305 310 315 320

Gln His Leu Leu Ile Thr Ala Pro Ser Ser Ser Ser Ser Ser Leu Glu
 325 330 335

Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala Pro Thr Arg Asn Gln Pro
 340 345 350

Gln Ala Pro Gly Val Glu Ala Ser Gly Ala Gly Glu Ala Arg Ala Ser
 355 360 365

Thr Gly Ser Ser Asp Ser Ser Pro Gly Gly His Gly Thr Gln Val Asn
 370 375 380

Val Thr Cys Ile Val Asn Val Cys Ser Ser Ser Asp His Ser Ser Gln
 385 390 395 400

Cys Ser Ser Gln Ala Ser Ser Thr Met Gly Asp Thr Asp Ser Ser Pro
 405 410 415

Ser Glu Ser Pro Lys Asp Glu Gln Val Pro Phe Ser Lys Glu Glu Cys
 420 425 430

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

Glu Glu Lys Pro Leu Pro Leu Gly Val Pro Asp Ala Gly Met Lys Pro
 450 455 460

Ser

465

<210> 8

<211> 658

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized NKG2D DARIC polyprotein comprising an NKG2D DARIC signaling component, a viral P2A domain, and an NKG2D DARIC.OX40 binding component

<400> 8

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

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr Gly Arg Asp
65 70 75 80

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile

366149_1.txt

130

135

140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
 145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
 165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
 180 185 190

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

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
 210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
 225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
 245 250 255

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

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

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

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
 305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu

325

330

335

Leu Leu Trp Val Pro Gly Ser Thr Gly Phe Asn Gln Glu Val Gln Ile
 340 345 350

Pro Leu Thr Glu Ser Tyr Cys Gly Pro Cys Pro Lys Asn Trp Ile Cys
 355 360 365

Tyr Lys Asn Asn Cys Tyr Gln Phe Phe Asp Glu Ser Lys Asn Trp Tyr
 370 375 380

Glu Ser Gln Ala Ser Cys Met Ser Gln Asn Ala Ser Leu Leu Lys Val
 385 390 395 400

Tyr Ser Lys Glu Asp Gln Asp Leu Leu Lys Leu Val Lys Ser Tyr His
 405 410 415

Trp Met Gly Leu Val His Ile Pro Thr Asn Gly Ser Trp Gln Trp Glu
 420 425 430

Asp Gly Ser Ile Leu Ser Pro Asn Leu Leu Thr Ile Ile Glu Met Gln
 435 440 445

Lys Gly Asp Cys Ala Leu Tyr Ala Ser Ser Phe Lys Gly Tyr Ile Glu
 450 455 460

Asn Cys Ser Thr Pro Asn Thr Tyr Ile Cys Met Gln Arg Thr Val Gly
 465 470 475 480

Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly
 485 490 495

Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly
 500 505 510

Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys

515

520

525

Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu
 530 535 540

Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile
 545 550 555 560

Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro
 565 570 575

Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly
 580 585 590

Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu
 595 600 605

Phe Ile Gly Leu Gly Ile Phe Phe Ala Leu Tyr Leu Leu Arg Arg Asp
 610 615 620

Gln Arg Leu Pro Pro Asp Ala His Lys Pro Pro Gly Gly Gly Ser Phe
 625 630 635 640

Arg Thr Pro Ile Gln Glu Glu Gln Ala Asp Ala His Ser Thr Leu Ala
 645 650 655

Lys Ile

<210> 9

<211> 790

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized NKG2D DARIC polyprotein comprising an NKG2D DARIC
 signaling component, a viral P2A domain, and an NKG2D DARIC.TNFR2
 binding component

366149_1.txt

<400> 9

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

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr Gly Arg Asp
65 70 75 80

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys

366149_1.txt

180

185

190

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

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
 210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
 225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
 245 250 255

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

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

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

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
 305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
 325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Phe Asn Gln Glu Val Gln Ile
 340 345 350

Pro Leu Thr Glu Ser Tyr Cys Gly Pro Cys Pro Lys Asn Trp Ile Cys
 355 360 365

Tyr Lys Asn Asn Cys Tyr Gln Phe Phe Asp Glu Ser Lys Asn Trp Tyr

370

375

380

Glu Ser Gln Ala Ser Cys Met Ser Gln Asn Ala Ser Leu Leu Lys Val
 385 390 395 400

Tyr Ser Lys Glu Asp Gln Asp Leu Leu Lys Leu Val Lys Ser Tyr His
 405 410 415

Trp Met Gly Leu Val His Ile Pro Thr Asn Gly Ser Trp Gln Trp Glu
 420 425 430

Asp Gly Ser Ile Leu Ser Pro Asn Leu Leu Thr Ile Ile Glu Met Gln
 435 440 445

Lys Gly Asp Cys Ala Leu Tyr Ala Ser Ser Phe Lys Gly Tyr Ile Glu
 450 455 460

Asn Cys Ser Thr Pro Asn Thr Tyr Ile Cys Met Gln Arg Thr Val Gly
 465 470 475 480

Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly
 485 490 495

Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly
 500 505 510

Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys
 515 520 525

Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu
 530 535 540

Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile
 545 550 555 560

Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro

565

570

575

Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly
 580 585 590

Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu
 595 600 605

Phe Ile Gly Leu Gly Ile Phe Phe Lys Lys Lys Pro Leu Cys Leu Gln
 610 615 620

Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg Gly Thr
 625 630 635 640

Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser Ser Ser
 645 650 655

Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala Pro
 660 665 670

Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly Ala Gly
 675 680 685

Glu Ala Arg Ala Ser Thr Gly Ser Ser Asp Ser Ser Pro Gly Gly His
 690 695 700

Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys Ser Ser Ser
 705 710 715 720

Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr Met Gly Asp
 725 730 735

Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln Val Pro Phe
 740 745 750

Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro Glu Thr

755

760

765

Leu Leu Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val Pro Asp
 770 775 780

Ala Gly Met Lys Pro Ser
 785 790

<210> 10
 <211> 216
 <212> PRT
 <213> Homo sapiens

<400> 10

Met Gly Trp Ile Arg Gly Arg Arg Ser Arg His Ser Trp Glu Met Ser
 1 5 10 15

Glu Phe His Asn Tyr Asn Leu Asp Leu Lys Lys Ser Asp Phe Ser Thr
 20 25 30

Arg Trp Gln Lys Gln Arg Cys Pro Val Val Lys Ser Lys Cys Arg Glu
 35 40 45

Asn Ala Ser Pro Phe Phe Phe Cys Cys Phe Ile Ala Val Ala Met Gly
 50 55 60

Ile Arg Phe Ile Ile Met Val Ala Ile Trp Ser Ala Val Phe Leu Asn
 65 70 75 80

Ser Leu Phe Asn Gln Glu Val Gln Ile Pro Leu Thr Glu Ser Tyr Cys
 85 90 95

Gly Pro Cys Pro Lys Asn Trp Ile Cys Tyr Lys Asn Asn Cys Tyr Gln
 100 105 110

Phe Phe Asp Glu Ser Lys Asn Trp Tyr Glu Ser Gln Ala Ser Cys Met
 115 120 125

366149_1.txt

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

Leu Leu Lys Leu Val Lys Ser Tyr His Trp Met Gly Leu Val His Ile
145 150 155 160

Pro Thr Asn Gly Ser Trp Gln Trp Glu Asp Gly Ser Ile Leu Ser Pro
165 170 175

Asn Leu Leu Thr Ile Ile Glu Met Gln Lys Gly Asp Cys Ala Leu Tyr
180 185 190

Ala Ser Ser Phe Lys Gly Tyr Ile Glu Asn Cys Ser Thr Pro Asn Thr
195 200 205

Tyr Ile Cys Met Gln Arg Thr Val
210 215

<210> 11
<211> 134
<212> PRT
<213> Homo sapiens

<400> 11

Phe Asn Gln Glu Val Gln Ile Pro Leu Thr Glu Ser Tyr Cys Gly Pro
1 5 10 15

Cys Pro Lys Asn Trp Ile Cys Tyr Lys Asn Asn Cys Tyr Gln Phe Phe
20 25 30

Asp Glu Ser Lys Asn Trp Tyr Glu Ser Gln Ala Ser Cys Met Ser Gln
35 40 45

Asn Ala Ser Leu Leu Lys Val Tyr Ser Lys Glu Asp Gln Asp Leu Leu
50 55 60

366149_1.txt

Lys Leu Val Lys Ser Tyr His Trp Met Gly Leu Val His Ile Pro Thr
65 70 75 80

Asn Gly Ser Trp Gln Trp Glu Asp Gly Ser Ile Leu Ser Pro Asn Leu
85 90 95

Leu Thr Ile Ile Glu Met Gln Lys Gly Asp Cys Ala Leu Tyr Ala Ser
100 105 110

Ser Phe Lys Gly Tyr Ile Glu Asn Cys Ser Thr Pro Asn Thr Tyr Ile
115 120 125

Cys Met Gln Arg Thr Val
130

<210> 12
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary linker sequence

<400> 12

Gly Gly Gly
1

<210> 13
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary linker sequence

<400> 13

Asp Gly Gly Gly Ser
1 5

<210> 14
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary linker sequence

<400> 14

Thr Gly Glu Lys Pro
 1 5

<210> 15
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary linker sequence

<400> 15

Gly Gly Arg Arg
 1

<210> 16
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary linker sequence

<400> 16

Gly Gly Gly Gly Ser
 1 5

<210> 17
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Exemplary linker sequence

<400> 17

Glu	Gly	Lys	Ser	Ser	Gly	Ser	Gly	Ser	Glu	Ser	Lys	Val	Asp
1				5					10				

<210> 18

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary linker sequence

<400> 18

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

Leu Asp

<210> 19

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary linker sequence

<400> 19

Gly	Gly	Arg	Arg	Gly	Gly	Gly	Ser
1				5			

<210> 20

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary linker sequence

<400> 20

Leu Arg Gln Arg Asp Gly Glu Arg Pro
1 5

<210> 21

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary linker sequence

<400> 21

Leu Arg Gln Lys Asp Gly Gly Gly Ser Glu Arg Pro
1 5 10

<210> 22

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary linker sequence

<400> 22

Leu Arg Gln Lys Asp Gly Gly Gly Ser Gly Gly Gly Ser Glu Arg Pro
1 5 10 15

<210> 23

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Cleavage sequence by TEV protease

<220>

<221> misc_feature

<222> (2)..(3)

<223> Xaa is any amino acid

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> Xaa is any amino acid

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> Xaa = Gly or Ser

<400> 23

Glu Xaa Xaa Tyr Xaa Gln Xaa
 1 5

<210> 24
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Cleavage sequence by TEV protease

<400> 24

Glu Asn Leu Tyr Phe Gln Gly
 1 5

<210> 25
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Cleavage sequence by TEV protease

<400> 25

Glu Asn Leu Tyr Phe Gln Ser
 1 5

<210> 26
 <211> 22
 <212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 26

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> 27

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 27

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

Pro	Gly	Pro
-----	-----	-----

<210> 28

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 28

Leu	Leu	Lys	Gln	Ala	Gly	Asp	Val	Glu	Glu	Asn	Pro	Gly	Pro
1				5					10				

<210> 29

366149_1.txt

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

<220>
 <223> Self-cleaving polypeptide comprising 2A site

<400> 29

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> 30
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Self-cleaving polypeptide comprising 2A site

<400> 30

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

Gly Pro

<210> 31
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Self-cleaving polypeptide comprising 2A site

<400> 31

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

366149_1.txt

<210> 32
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Self-cleaving polypeptide comprising 2A site

<400> 32

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> 33
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Self-cleaving polypeptide comprising 2A site

<400> 33

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

Asn Pro Gly Pro
 20

<210> 34
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Self-cleaving polypeptide comprising 2A site

<400> 34

Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn Pro Gly Pro

1

5

10

<210> 35

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 35

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> 36

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 36

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

Glu	Ser	Asn	Pro	Gly	Pro
			20		

<210> 37

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 37

366149_1.txt

Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn Pro Gly Pro
1 5 10

<210> 38
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Self-cleaving polypeptide comprising 2A site

<400> 38

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

Pro Gly Pro

<210> 39
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Self-cleaving polypeptide comprising 2A site

<400> 39

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

Pro Gly Pro

<210> 40
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Self-cleaving polypeptide comprising 2A site

366149_1.txt

<400> 40

Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn Pro Gly Pro
1 5 10

<210> 41

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 41

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

Pro

<210> 42

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 42

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

Asn Pro Gly Pro
20

<210> 43

<211> 24

<212> PRT

<213> Artificial Sequence

366149_1.txt

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 43

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

Asp Val Glu Ser Asn Pro Gly Pro
20

<210> 44

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 44

Val Thr Glu Leu Leu Tyr Arg Met Lys Arg Ala Glu Thr Tyr Cys Pro
1 5 10 15

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

Ile Val Ala Pro Val Lys Gln Thr
35 40

<210> 45

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 45

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

Gly Pro

<210> 46
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Self-cleaving polypeptide comprising 2A site
 <400> 46

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

Ala Pro Val Lys Gln Thr Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly
 20 25 30

Asp Val Glu Ser Asn Pro Gly Pro
 35 40

<210> 47
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Self-cleaving polypeptide comprising 2A site
 <400> 47

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

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

Pro

366149_1.txt

<210> 48

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Consensus Kozak sequence

<400> 48

gccrccatgg

10