

SEQUENCE LISTING

<110> Confo Therapeutics N.V.

<120> Screening methods and assays for use with transmembrane proteins,
in particular with GPCRs

<130> P6084870PCT

<150> US 62/840,091
<151> 2019-04-29

<150> US 62/840,092
<151> 2019-04-29

<150> US 62/840,094
<151> 2019-04-29

<150> US 62/863,544
<151> 2019-06-19

<150> US 62/934,133
<151> 2019-11-12

<150> US 62/934,136
<151> 2019-11-12

<150> US 62/934,181
<151> 2019-11-12

<160> 26

<170> PatentIn version 3.5

<210> 1
<211> 128
<212> PRT
<213> Artificial sequence

<220>
<223> CA4435

<400> 1

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

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

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

Ser Asp Ile Ser Gln Ser Gly Ala Ser Ile Ser Tyr Thr Gly Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Cys Pro Ala Pro Phe Thr Arg Asp Cys Phe Asp Val Thr Ser
100 105 110

Thr Thr Tyr Ala Tyr Arg Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 2
<211> 119
<212> PRT
<213> Artificial sequence

<220>
<223> CA4437

<400> 2

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Lys Asn
20 25 30

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

Ala Ala Ser Pro Thr Gly Gly Ser Thr Ala Tyr Lys Asp Ser Val Lys
50 55 60

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

Gln Met Asn Val Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys His
85 90 95

Leu Arg Gln Asn Asn Arg Gly Ser Trp Phe His Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 3
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> Hemagglutinin (HA) protein signal peptide

<400> 3

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

<210> 4
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> FLAG-tag

<400> 4

Asp Tyr Lys Asp Asp Asp Asp Ala
1 5

<210> 5
<211> 21
<212> PRT
<213> Artificial sequence

<220>
<223> Linker

<400> 5

Gly Ala Gln Gly Asn Ser Gly Ser Ser Gly Gly Gly Gly Ser Gly Gly
1 5 10 15

Gly Gly Ser Ser Gly
20

<210> 6
<211> 15
<212> PRT
<213> Artificial sequence

<220>
<223> Linker

<400> 6

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

<210> 7
<211> 158
<212> PRT
<213> Artificial sequence

<220>
<223> large subunit of the NanoLuc luciferase (LgBit)

<400> 7

Val Phe Thr Leu Glu Asp Phe Val Gly Asp Trp Glu Gln Thr Ala Ala
1 5 10 15

Tyr Asn Leu Asp Gln Val Leu Glu Gln Gly Gly Val Ser Ser Leu Leu
20 25 30

Gln Asn Leu Ala Val Ser Val Thr Pro Ile Gln Arg Ile Val Arg Ser
35 40 45

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

Gly Leu Ser Ala Asp Gln Met Ala Gln Ile Glu Glu Val Phe Lys Val
65 70 75 80

Val Tyr Pro Val Asp Asp His His Phe Lys Val Ile Leu Pro Tyr Gly
85 90 95

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

Arg Pro Tyr Glu Gly Ile Ala Val Phe Asp Gly Lys Lys Ile Thr Val
115 120 125

Thr Gly Thr Leu Trp Asn Gly Asn Lys Ile Ile Asp Glu Arg Leu Ile
130 135 140

Thr Pro Asp Gly Ser Met Leu Phe Arg Val Thr Ile Asn Ser
145 150 155

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

<220>
<223> small subunit of the NanoLuc luciferase (SmBit)

<400> 8

Val Thr Gly Tyr Arg Leu Phe Glu Glu Ile Leu
1 5 10

<210> 9
<211> 535
<212> PRT
<213> Artificial sequence

<220>
<223> MC4R fusion

<400> 9

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

Asp Tyr Lys Asp Asp Asp Asp Lys Ala Val Asn Ser Thr His Arg Gly
20 25 30

Met His Thr Ser Leu His Leu Trp Asn Arg Ser Ser Tyr Arg Leu His
35 40 45

Ser Asn Ala Ser Glu Ser Leu Gly Lys Gly Tyr Ser Asp Gly Gly Cys
50 55 60

Tyr Glu Gln Leu Phe Val Ser Pro Glu Val Phe Val Thr Leu Gly Val
65 70 75 80

Ile Ser Leu Leu Glu Asn Ile Leu Val Ile Val Ala Ile Ala Lys Asn
85 90 95

Lys Asn Leu His Ser Pro Met Tyr Phe Phe Ile Cys Ser Leu Ala Val
100 105 110

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

Thr Leu Leu Asn Ser Thr Asp Thr Asp Ala Gln Ser Phe Thr Val Asn
130 135 140

Ile Asp Asn Val Ile Asp Ser Val Ile Cys Ser Ser Leu Leu Ala Ser
145 150 155 160

Ile Cys Ser Leu Leu Ser Ile Ala Val Asp Arg Tyr Phe Thr Ile Phe
165 170 175

Tyr Ala Leu Gln Tyr His Asn Ile Met Thr Val Lys Arg Val Gly Ile
180 185 190

Ile Ile Ser Cys Ile Trp Ala Ala Cys Thr Val Ser Gly Ile Leu Phe
195 200 205

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

Phe Phe Thr Met Leu Ala Leu Met Ala Ser Leu Tyr Val His Met Phe
225 230 235 240

Leu Met Ala Arg Leu His Ile Lys Arg Ile Ala Val Leu Pro Gly Thr
245 250 255

Gly Ala Ile Arg Gln Gly Ala Asn Met Lys Gly Ala Ile Thr Leu Thr
260 265 270

Ile Leu Ile Gly Val Phe Val Val Cys Trp Ala Pro Phe Phe Leu His
275 280 285

Leu Ile Phe Tyr Ile Ser Cys Pro Gln Asn Pro Tyr Cys Val Cys Phe
290 295 300

Met Ser His Phe Asn Leu Tyr Leu Ile Leu Ile Met Cys Asn Ser Ile
305 310 315 320

Ile Asp Pro Leu Ile Tyr Ala Leu Arg Ser Gln Glu Leu Arg Lys Thr
325 330 335

Phe Lys Glu Ile Ile Cys Cys Tyr Pro Leu Gly Gly Leu Cys Asp Leu
340 345 350

Ser Ser Arg Tyr Gly Ala Gln Gly Asn Ser Gly Ser Ser Gly Gly Gly
355 360 365

Gly Ser Gly Gly Gly Gly Ser Ser Gly Val Phe Thr Leu Glu Asp Phe
370 375 380

Val Gly Asp Trp Glu Gln Thr Ala Ala Tyr Asn Leu Asp Gln Val Leu
385 390 395 400

Glu Gln Gly Gly Val Ser Ser Leu Leu Gln Asn Leu Ala Val Ser Val
405 410 415

Thr Pro Ile Gln Arg Ile Val Arg Ser Gly Glu Asn Ala Leu Lys Ile
420 425 430

Asp Ile His Val Ile Ile Pro Tyr Glu Gly Leu Ser Ala Asp Gln Met
435 440 445

Ala Gln Ile Glu Glu Val Phe Lys Val Val Tyr Pro Val Asp Asp His
450 455 460

His Phe Lys Val Ile Leu Pro Tyr Gly Thr Leu Val Ile Asp Gly Val
465 470 475 480

Thr Pro Asn Met Leu Asn Tyr Phe Gly Arg Pro Tyr Glu Gly Ile Ala
485 490 495

Val Phe Asp Gly Lys Lys Ile Thr Val Thr Gly Thr Leu Trp Asn Gly
500 505 510

Asn Lys Ile Ile Asp Glu Arg Leu Ile Thr Pro Asp Gly Ser Met Leu
515 520 525

Phe Arg Val Thr Ile Asn Ser
530 535

<210> 10
<211> 666
<212> PRT
<213> Artificial sequence

<220>
<223> GLP-1R fusion

<400> 10

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

Asp Tyr Lys Asp Asp Asp Asp Ala Met Ala Gly Ala Pro Gly Pro Leu
20 25 30

Arg Leu Ala Leu Leu Leu Leu Gly Met Val Gly Arg Ala Gly Pro Arg
35 40 45

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

Glu Tyr Arg Arg Gln Cys Gln Arg Ser Leu Thr Glu Asp Pro Pro Pro
65 70 75 80

Ala Thr Asp Leu Phe Cys Asn Arg Thr Phe Asp Glu Tyr Ala Cys Trp
85 90 95

Pro Asp Gly Glu Pro Gly Ser Phe Val Asn Val Ser Cys Pro Trp Tyr
100 105 110

Leu Pro Trp Ala Ser Ser Val Pro Gln Gly His Val Tyr Arg Phe Cys
115 120 125

Thr Ala Glu Gly Leu Trp Leu Gln Lys Asp Asn Ser Ser Leu Pro Trp
130 135 140

Arg Asp Leu Ser Glu Cys Glu Glu Ser Lys Arg Gly Glu Arg Ser Ser
145 150 155 160

Pro Glu Glu Gln Leu Leu Phe Leu Tyr Ile Ile Tyr Thr Val Gly Tyr
165 170 175

Ala Leu Ser Phe Ser Ala Leu Val Ile Ala Ser Ala Ile Leu Leu Gly
180 185 190

Phe Arg His Leu His Cys Thr Arg Asn Tyr Ile His Leu Asn Leu Phe
195 200 205

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

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

Leu Leu Ser Tyr Gln Asp Ser Leu Ser Cys Arg Leu Val Phe Leu Leu
245 250 255

Met Gln Tyr Cys Val Ala Ala Asn Tyr Tyr Trp Leu Leu Val Glu Gly
260 265 270

Val Tyr Leu Tyr Thr Leu Leu Ala Phe Ser Val Leu Ser Glu Gln Trp
275 280 285

Ile Phe Arg Leu Tyr Val Ser Ile Gly Trp Gly Val Pro Leu Leu Phe
290 295 300

Val Val Pro Trp Gly Ile Val Lys Tyr Leu Tyr Glu Asp Glu Gly Cys
305 310 315 320

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

Ile Leu Phe Ala Ile Gly Val Asn Phe Leu Ile Phe Val Arg Val Ile
340 345 350

Cys Ile Val Val Ser Lys Leu Lys Ala Asn Leu Met Cys Lys Thr Asp
355 360 365

Ile Lys Cys Arg Leu Ala Lys Ser Thr Leu Thr Leu Ile Pro Leu Leu
370 375 380

Gly Thr His Glu Val Ile Phe Ala Phe Val Met Asp Glu His Ala Arg
385 390 395 400

Gly Thr Leu Arg Phe Ile Lys Leu Phe Thr Glu Leu Ser Phe Thr Ser
405 410 415

Phe Gln Gly Leu Met Val Ala Ile Leu Tyr Cys Phe Val Asn Asn Glu
420 425 430

Val Gln Leu Glu Phe Arg Lys Ser Trp Glu Arg Trp Arg Leu Glu His
435 440 445

Leu His Ile Gln Arg Asp Ser Ser Met Lys Pro Leu Lys Cys Pro Thr
450 455 460

Ser Ser Leu Ser Ser Gly Ala Thr Ala Gly Ser Ser Met Tyr Thr Ala
465 470 475 480

Thr Cys Gln Ala Ser Cys Ser Gly Ala Gln Gly Asn Ser Gly Ser Ser
485 490 495

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Gly Val Phe Thr Leu
500 505 510

Glu Asp Phe Val Gly Asp Trp Glu Gln Thr Ala Ala Tyr Asn Leu Asp
515 520 525

Gln Val Leu Glu Gln Gly Gly Val Ser Ser Leu Leu Gln Asn Leu Ala
530 535 540

Val Ser Val Thr Pro Ile Gln Arg Ile Val Arg Ser Gly Glu Asn Ala
545 550 555 560

Leu Lys Ile Asp Ile His Val Ile Ile Pro Tyr Glu Gly Leu Ser Ala
565 570 575

Asp Gln Met Ala Gln Ile Glu Glu Val Phe Lys Val Val Tyr Pro Val
580 585 590

Asp Asp His His Phe Lys Val Ile Leu Pro Tyr Gly Thr Leu Val Ile
595 600 605

Asp Gly Val Thr Pro Asn Met Leu Asn Tyr Phe Gly Arg Pro Tyr Glu
610 615 620

Gly Ile Ala Val Phe Asp Gly Lys Lys Ile Thr Val Thr Gly Thr Leu
625 630 635 640

Trp Asn Gly Asn Lys Ile Ile Asp Glu Arg Leu Ile Thr Pro Asp Gly
645 650 655

Ser Met Leu Phe Arg Val Thr Ile Asn Ser
660 665

<210> 11
<211> 575
<212> PRT
<213> Artificial sequence

<220>
<223> Beta-2AR fusion

<400> 11

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

Asp Tyr Lys Asp Asp Asp Asp Ala Glu Asn Leu Tyr Phe Gln Gly Phe
20 25 30

Gly Gln Pro Gly Asn Gly Ser Ala Phe Leu Leu Ala Pro Asn Arg Ser
35 40 45

His Ala Pro Asp His Asp Val Thr Gln Gln Arg Asp Glu Val Trp Val
50 55 60

Val Gly Met Gly Ile Val Met Ser Leu Ile Val Leu Ala Ile Val Phe
65 70 75 80

Gly Asn Val Leu Val Ile Thr Ala Ile Ala Lys Phe Glu Arg Leu Gln
85 90 95

Thr Val Thr Asn Tyr Phe Ile Thr Ser Leu Ala Cys Ala Asp Leu Val
100 105 110

Met Gly Leu Ala Val Val Pro Phe Gly Ala Ala His Ile Leu Met Lys
115 120 125

Met Trp Thr Phe Gly Asn Phe Trp Cys Glu Phe Trp Thr Ser Ile Asp
130 135 140

Val Leu Cys Val Thr Ala Ser Ile Glu Thr Leu Cys Val Ile Ala Val
145 150 155 160

Asp Arg Tyr Phe Ala Ile Thr Ser Pro Phe Lys Tyr Gln Ser Leu Leu
165 170 175

Thr Lys Asn Lys Ala Arg Val Ile Ile Leu Met Val Trp Ile Val Ser
180 185 190

Gly Leu Thr Ser Phe Leu Pro Ile Gln Met His Trp Tyr Arg Ala Thr
195 200 205

His Gln Glu Ala Ile Asn Cys Tyr Ala Glu Glu Thr Cys Cys Asp Phe
210 215 220

Phe Thr Asn Gln Ala Tyr Ala Ile Ala Ser Ser Ile Val Ser Phe Tyr
225 230 235 240

Val Pro Leu Val Ile Met Val Phe Val Tyr Ser Arg Val Phe Gln Glu
245 250 255

Ala Lys Arg Gln Leu Gln Lys Ile Asp Lys Ser Glu Gly Arg Phe His
260 265 270

Val Gln Asn Leu Ser Gln Val Glu Gln Asp Gly Arg Thr Gly His Gly
275 280 285

Leu Arg Arg Ser Ser Lys Phe Cys Leu Lys Glu His Lys Ala Leu Lys
290 295 300

Thr Leu Gly Ile Ile Met Gly Thr Phe Thr Leu Cys Trp Leu Pro Phe
305 310 315 320

Phe Ile Val Asn Ile Val His Val Ile Gln Asp Asn Leu Ile Arg Lys
325 330 335

Glu Val Tyr Ile Leu Leu Asn Trp Ile Gly Tyr Val Asn Ser Gly Phe
340 345 350

Asn Pro Leu Ile Tyr Cys Arg Ser Pro Asp Phe Arg Ile Ala Phe Gln
355 360 365

Glu Leu Leu Cys Leu Arg Arg Ser Ser Leu Lys Ala Tyr Gly Asn Gly
370 375 380

Tyr Ser Ser Asn Gly Asn Thr Gly Glu Gln Ser Gly Gly Ala Gln Gly
385 390 395 400

Asn Ser Gly Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser
405 410 415

Gly Val Phe Thr Leu Glu Asp Phe Val Gly Asp Trp Glu Gln Thr Ala
420 425 430

Ala Tyr Asn Leu Asp Gln Val Leu Glu Gln Gly Gly Val Ser Ser Leu
435 440 445

Leu Gln Asn Leu Ala Val Ser Val Thr Pro Ile Gln Arg Ile Val Arg
450 455 460

Ser Gly Glu Asn Ala Leu Lys Ile Asp Ile His Val Ile Ile Pro Tyr
465 470 475 480

Glu Gly Leu Ser Ala Asp Gln Met Ala Gln Ile Glu Glu Val Phe Lys
485 490 495

Val Val Tyr Pro Val Asp Asp His His Phe Lys Val Ile Leu Pro Tyr
500 505 510

Gly Thr Leu Val Ile Asp Gly Val Thr Pro Asn Met Leu Asn Tyr Phe
515 520 525

Gly Arg Pro Tyr Glu Gly Ile Ala Val Phe Asp Gly Lys Lys Ile Thr
530 535 540

Val Thr Gly Thr Leu Trp Asn Gly Asn Lys Ile Ile Asp Glu Arg Leu
545 550 555 560

Ile Thr Pro Asp Gly Ser Met Leu Phe Arg Val Thr Ile Asn Ser
565 570 575

<210> 12
<211> 559
<212> PRT
<213> Artificial sequence

<220>
<223> MOR fusion

<400> 12

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

Asp Tyr Lys Asp Asp Asp Asp Ala Met Ala Pro Thr Asn Ala Ser Asn
20 25 30

Cys Thr Asp Ala Leu Ala Tyr Ser Ser Cys Ser Pro Ala Pro Ser Pro
35 40 45

Gly Ser Trp Val Asn Leu Ser His Leu Asp Gly Asn Leu Ser Asp Pro
50 55 60

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

Pro Thr Gly Ser Pro Ser Met Ile Thr Ala Ile Thr Ile Met Ala Leu
85 90 95

Tyr Ser Ile Val Cys Val Val Gly Leu Phe Gly Asn Phe Leu Val Met
100 105 110

Tyr Val Ile Val Arg Tyr Thr Lys Met Lys Thr Ala Thr Asn Ile Tyr
115 120 125

Ile Phe Asn Leu Ala Leu Ala Asp Ala Leu Ala Thr Ser Thr Leu Pro
130 135 140

Phe Gln Ser Val Asn Tyr Leu Met Gly Thr Trp Pro Phe Gly Thr Ile
145 150 155 160

Leu Cys Lys Ile Val Ile Ser Ile Asp Tyr Tyr Asn Met Phe Thr Ser
165 170 175

Ile Phe Thr Leu Cys Thr Met Ser Val Asp Arg Tyr Ile Ala Val Cys
180 185 190

His Pro Val Lys Ala Leu Asp Phe Arg Thr Pro Arg Asn Ala Lys Ile
195 200 205

Ile Asn Val Cys Asn Trp Ile Leu Ser Ser Ala Ile Gly Leu Pro Val
210 215 220

Met Phe Met Ala Thr Thr Lys Tyr Arg Gln Gly Ser Ile Asp Cys Thr
225 230 235 240

Leu Thr Phe Ser His Pro Thr Trp Tyr Trp Glu Asn Leu Leu Lys Ile
245 250 255

Cys Val Phe Ile Phe Ala Phe Ile Met Pro Val Leu Ile Ile Thr Val
260 265 270

Cys Tyr Gly Leu Met Ile Leu Arg Leu Lys Ser Val Arg Met Leu Ser
275 280 285

Gly Ser Lys Glu Lys Asp Arg Asn Leu Arg Arg Ile Thr Arg Met Val
290 295 300

Leu Val Val Val Ala Val Phe Ile Val Cys Trp Thr Pro Ile His Ile
305 310 315 320

Tyr Val Ile Ile Lys Ala Leu Val Thr Ile Pro Glu Thr Thr Phe Gln
325 330 335

Thr Val Ser Trp His Phe Cys Ile Ala Leu Gly Tyr Thr Asn Ser Cys
340 345 350

Leu Asn Pro Val Leu Tyr Ala Phe Leu Asp Glu Asn Phe Lys Arg Cys
355 360 365

Phe Arg Glu Phe Cys Ile Pro Thr Ser Ser Asn Ile Gly Ala Gln Gly
370 375 380

Asn Ser Gly Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser
385 390 395 400

Gly Val Phe Thr Leu Glu Asp Phe Val Gly Asp Trp Glu Gln Thr Ala
405 410 415

Ala Tyr Asn Leu Asp Gln Val Leu Glu Gln Gly Gly Val Ser Ser Leu
420 425 430

Leu Gln Asn Leu Ala Val Ser Val Thr Pro Ile Gln Arg Ile Val Arg
435 440 445

Ser Gly Glu Asn Ala Leu Lys Ile Asp Ile His Val Ile Ile Pro Tyr
450 455 460

Glu Gly Leu Ser Ala Asp Gln Met Ala Gln Ile Glu Glu Val Phe Lys
465 470 475 480

Val Val Tyr Pro Val Asp Asp His His Phe Lys Val Ile Leu Pro Tyr
485 490 495

Gly Thr Leu Val Ile Asp Gly Val Thr Pro Asn Met Leu Asn Tyr Phe
500 505 510

Gly Arg Pro Tyr Glu Gly Ile Ala Val Phe Asp Gly Lys Lys Ile Thr
515 520 525

Val Thr Gly Thr Leu Trp Asn Gly Asn Lys Ile Ile Asp Glu Arg Leu
530 535 540

Ile Thr Pro Asp Gly Ser Met Leu Phe Arg Val Thr Ile Asn Ser
545 550 555

<210> 13
<211> 517
<212> PRT
<213> Artificial sequence

<220>
<223> M2 fusion

<400> 13

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

Asp Tyr Lys Asp Asp Asp Asp Ala Met Asn Asn Ser Thr Asn Ser Ser
20 25 30

Asn Asn Ser Leu Ala Leu Thr Ser Pro Tyr Lys Thr Phe Glu Val Val
35 40 45

Phe Ile Val Leu Val Ala Gly Ser Leu Ser Leu Val Thr Ile Ile Gly
50 55 60

Asn Ile Leu Val Met Val Ser Ile Lys Val Asn Arg His Leu Gln Thr
65 70 75 80

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

Gly Val Phe Ser Met Asn Leu Tyr Thr Leu Tyr Thr Val Ile Gly Tyr
100 105 110

Trp Pro Leu Gly Pro Val Val Cys Asp Leu Trp Leu Ala Leu Asp Tyr
115 120 125

Val Val Ser Asn Ala Ser Val Met Asn Leu Leu Ile Ile Ser Phe Asp
130 135 140

Arg Tyr Phe Cys Val Thr Lys Pro Leu Thr Tyr Pro Val Lys Arg Thr
145 150 155 160

Thr Lys Met Ala Gly Met Met Ile Ala Ala Ala Trp Val Leu Ser Phe
165 170 175

Ile Leu Trp Ala Pro Ala Ile Leu Phe Trp Gln Phe Ile Val Gly Val
180 185 190

Arg Thr Val Glu Asp Gly Glu Cys Tyr Ile Gln Phe Phe Ser Asn Ala
195 200 205

Ala Val Thr Phe Gly Thr Ala Ile Ala Ala Phe Tyr Leu Pro Val Ile
210 215 220

Ile Met Thr Val Leu Tyr Trp His Ile Ser Arg Ala Ser Lys Ser Arg
225 230 235 240

Ile Lys Lys Asp Lys Lys Glu Pro Val Ala Asn Gln Asp Pro Val Ser
245 250 255

Lys Lys Pro Pro Pro Ser Arg Glu Lys Lys Val Thr Arg Thr Ile Leu
260 265 270

Ala Ile Leu Leu Ala Phe Ile Ile Thr Trp Ala Pro Tyr Asn Val Met
275 280 285

Val Leu Ile Asn Thr Phe Cys Ala Pro Cys Ile Pro Asn Thr Val Trp
290 295 300

Thr Ile Gly Tyr Trp Leu Cys Tyr Ile Asn Ser Thr Ile Asn Pro Ala
305 310 315 320

Cys Tyr Ala Leu Cys Asn Ala Thr Phe Lys Lys Thr Phe Lys His Leu
325 330 335

Leu Met Gly Ala Gln Gly Asn Ser Gly Ser Ser Gly Gly Gly Gly Ser
340 345 350

Gly Gly Gly Gly Ser Ser Gly Val Phe Thr Leu Glu Asp Phe Val Gly
355 360 365

Asp Trp Glu Gln Thr Ala Ala Tyr Asn Leu Asp Gln Val Leu Glu Gln
370 375 380

Gly Gly Val Ser Ser Leu Leu Gln Asn Leu Ala Val Ser Val Thr Pro
385 390 395 400

Ile Gln Arg Ile Val Arg Ser Gly Glu Asn Ala Leu Lys Ile Asp Ile
405 410 415

His Val Ile Ile Pro Tyr Glu Gly Leu Ser Ala Asp Gln Met Ala Gln
420 425 430

Ile Glu Glu Val Phe Lys Val Val Tyr Pro Val Asp Asp His His Phe
435 440 445

Lys Val Ile Leu Pro Tyr Gly Thr Leu Val Ile Asp Gly Val Thr Pro
450 455 460

Asn Met Leu Asn Tyr Phe Gly Arg Pro Tyr Glu Gly Ile Ala Val Phe
465 470 475 480

Asp Gly Lys Lys Ile Thr Val Thr Gly Thr Leu Trp Asn Gly Asn Lys
485 490 495

Ile Ile Asp Glu Arg Leu Ile Thr Pro Asp Gly Ser Met Leu Phe Arg
500 505 510

Val Thr Ile Asn Ser
515

<210> 14
<211> 522
<212> PRT
<213> Artificial sequence

<220>
<223> AT1R fusion

<400> 14

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

Asp Tyr Lys Asp Asp Asp Asp Ala Met Ile Leu Asn Ser Ser Thr Glu
20 25 30

Asp Gly Ile Lys Arg Ile Gln Asp Asp Cys Pro Lys Ala Gly Arg His
35 40 45

Asn Tyr Ile Phe Val Met Ile Pro Thr Leu Tyr Ser Ile Ile Phe Val
50 55 60

Val Gly Ile Phe Gly Asn Ser Leu Val Val Ile Val Ile Tyr Phe Tyr
65 70 75 80

Met Lys Leu Lys Thr Val Ala Ser Val Phe Leu Leu Asn Leu Ala Leu
85 90 95

Ala Asp Leu Cys Phe Leu Leu Thr Leu Pro Leu Trp Ala Val Tyr Thr
100 105 110

Ala Met Glu Tyr Arg Trp Pro Phe Gly Asn Tyr Leu Cys Lys Ile Ala
115 120 125

Ser Ala Ser Val Ser Phe Asn Leu Tyr Ala Ser Val Phe Leu Leu Thr
130 135 140

Cys Leu Ser Ile Asp Arg Tyr Leu Ala Ile Val His Pro Met Lys Ser
145 150 155 160

Arg Leu Arg Arg Thr Met Leu Val Ala Lys Val Thr Cys Ile Ile Ile
165 170 175

Trp Leu Leu Ala Gly Leu Ala Ser Leu Pro Ala Ile Ile His Arg Asn
180 185 190

Val Phe Phe Ile Glu Asn Thr Asn Ile Thr Val Cys Ala Phe His Tyr
195 200 205

Glu Ser Gln Asn Ser Thr Leu Pro Ile Gly Leu Gly Leu Thr Lys Asn
210 215 220

Ile Leu Gly Phe Leu Phe Pro Phe Leu Ile Ile Leu Thr Ser Tyr Thr
225 230 235 240

Leu Ile Trp Lys Ala Leu Lys Lys Ala Tyr Glu Ile Gln Lys Asn Lys
245 250 255

Pro Arg Asn Asp Asp Ile Phe Lys Ile Ile Met Ala Ile Val Leu Phe
260 265 270

Phe Phe Phe Ser Trp Ile Pro His Gln Ile Phe Thr Phe Leu Asp Val
275 280 285

Leu Ile Gln Leu Gly Ile Ile Arg Asp Cys Arg Ile Ala Asp Ile Val
290 295 300

Asp Thr Ala Met Pro Ile Thr Ile Cys Ile Ala Tyr Phe Asn Asn Cys
305 310 315 320

Leu Asn Pro Leu Phe Tyr Gly Phe Leu Gly Lys Lys Phe Lys Arg Tyr
325 330 335

Phe Leu Gln Leu Leu Lys Tyr Gly Ala Gln Gly Asn Ser Gly Ser Ser
340 345 350

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Gly Val Phe Thr Leu
355 360 365

Glu Asp Phe Val Gly Asp Trp Glu Gln Thr Ala Ala Tyr Asn Leu Asp
370 375 380

Gln Val Leu Glu Gln Gly Gly Val Ser Ser Leu Leu Gln Asn Leu Ala
385 390 395 400

Val Ser Val Thr Pro Ile Gln Arg Ile Val Arg Ser Gly Glu Asn Ala
405 410 415

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

Asp Gln Met Ala Gln Ile Glu Glu Val Phe Lys Val Val Tyr Pro Val
435 440 445

Asp Asp His His Phe Lys Val Ile Leu Pro Tyr Gly Thr Leu Val Ile
450 455 460

Asp Gly Val Thr Pro Asn Met Leu Asn Tyr Phe Gly Arg Pro Tyr Glu
465 470 475 480

Gly Ile Ala Val Phe Asp Gly Lys Lys Ile Thr Val Thr Gly Thr Leu
485 490 495

Trp Asn Gly Asn Lys Ile Ile Asp Glu Arg Leu Ile Thr Pro Asp Gly
500 505 510

Ser Met Leu Phe Arg Val Thr Ile Asn Ser
515 520

<210> 15
<211> 149
<212> PRT
<213> Artificial sequence

<220>
<223> XA8633 fusion

<400> 15

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

Gly Ser Arg Arg Leu Ser Cys Val Asp Ser Glu Arg Thr Ser Tyr Pro
20 25 30

Met Gly Trp Phe Arg Arg Ala Pro Gly Lys Glu Arg Glu Phe Val Ala
35 40 45

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

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

Gln Met Asn Ser Leu Lys His Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Ala Arg Ala Pro Val Gly Gln Ser Ser Ser Pro Tyr Asp Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Ser Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ser Gly Val Thr Gly Tyr Arg Leu
130 135 140

Phe Glu Glu Ile Leu
145

<210> 16
<211> 147
<212> PRT
<213> Artificial sequence

<220>
<223> CA2780 fusion

<400> 16

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

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ile
20 25 30

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

Val Ala Ala Ile His Ser Gly Gly Ser Thr Asn Tyr Ala Asn Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Asn Val Lys Asp Tyr Gly Ala Val Leu Tyr Glu Tyr Asp Tyr Trp Gly
100 105 110

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

Ser Gly Gly Gly Gly Ser Ser Gly Val Thr Gly Tyr Arg Leu Phe Glu
130 135 140

Glu Ile Leu
145

<210> 17
<211> 148
<212> PRT
<213> Artificial sequence

<220>
<223> Nb9-8 fusion

<400> 17

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

Asp Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Asp Asn
20 25 30

Phe Asp Asp Tyr Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Gln Glu
35 40 45

Arg Glu Gly Val Ser Cys Ile Asp Pro Ser Asp Gly Ser Thr Ile Tyr
50 55 60

Ala Asp Ser Ala Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Glu
65 70 75 80

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

Val Tyr Val Cys Ser Ala Trp Thr Leu Phe His Ser Asp Glu Tyr Trp
100 105 110

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

Gly Ser Gly Gly Gly Gly Ser Ser Gly Val Thr Gly Tyr Arg Leu Phe
130 135 140

Glu Glu Ile Leu
145

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

<220>
<223> NbAT110i1 fusion

<400> 18

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

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asn Ile Phe Asp Val
20 25 30

Asp Ile Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu
35 40 45

Val Ala Ser Ile Thr Asp Gly Gly Ser Thr Asp Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Val Ala Tyr Pro Asp Ile Pro Thr Tyr Phe Asp Tyr Asp Ser
100 105 110

Asp Asn Phe Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly
115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Gly Val Thr
130 135 140

Gly Tyr Arg Leu Phe Glu Glu Ile Leu
145 150

<210> 19
<211> 146
<212> PRT
<213> Artificial sequence

<220>
<223> CA4437 fusion

<400> 19

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

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Lys
20 25 30

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

Val Ala Ala Ser Pro Thr Gly Gly Ser Thr Ala Tyr Lys Asp Ser Val
50 55 60

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

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

His Leu Arg Gln Asn Asn Arg Gly Ser Trp Phe His Tyr Trp Gly Gln
100 105 110

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

Gly Gly Gly Gly Ser Ser Gly Val Thr Gly Tyr Arg Leu Phe Glu Glu
130 135 140

Ile Leu
145

<210> 20
<211> 155
<212> PRT
<213> Artificial sequence

<220>
<223> CA4435 fusion

<400> 20

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

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn
20 25 30

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

Val Ser Asp Ile Ser Gln Ser Gly Ala Ser Ile Ser Tyr Thr Gly Ser
50 55 60

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

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

Cys Ala Arg Cys Pro Ala Pro Phe Thr Arg Asp Cys Phe Asp Val Thr
100 105 110

Ser Thr Thr Tyr Ala Tyr Arg Gly Gln Gly Thr Gln Val Thr Val Ser
115 120 125

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

Val Thr Gly Tyr Arg Leu Phe Glu Glu Ile Leu
145 150 155

<210> 21
<211> 127
<212> PRT
<213> Artificial sequence

<220>

<223> NbAT110i1

<400> 21

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

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asn Ile Phe Asp Val
20 25 30

Asp Ile Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu
35 40 45

Val Ala Ser Ile Thr Asp Gly Gly Ser Thr Asp Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Val Ala Tyr Pro Asp Ile Pro Thr Tyr Phe Asp Tyr Asp Ser
100 105 110

Asp Asn Phe Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 22

<211> 356

<212> PRT

<213> Artificial sequence

<220>

<223> APL receptor-MOR chimer

<400> 22

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

Asp Tyr Lys Asp Asp Asp Asp Ala Met Glu Glu Gly Gly Asp Phe Asp
20 25 30

Asn Tyr Tyr Gly Ala Asp Asn Gln Ser Glu Cys Glu Tyr Thr Asp Trp
35 40 45

Lys Ser Ser Gly Ala Leu Ile Pro Ala Ile Tyr Met Leu Val Phe Leu
50 55 60

Leu Gly Thr Thr Gly Asn Gly Leu Val Leu Trp Thr Ile Val Arg Tyr
65 70 75 80

Thr Lys Met Lys Arg Arg Ser Ala Asp Ile Phe Ile Ala Ser Leu Ala
85 90 95

Val Ala Asp Leu Thr Phe Val Val Thr Leu Pro Leu Trp Ala Thr Tyr
100 105 110

Thr Tyr Arg Asp Tyr Asp Trp Pro Phe Gly Thr Phe Phe Cys Lys Leu
115 120 125

Ser Ser Tyr Leu Ile Phe Val Asn Met Tyr Ala Ser Val Phe Cys Leu
130 135 140

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

Ala Leu Asp Phe Arg Thr Pro Arg Asn Gly Ala Val Ala Thr Ala Val
165 170 175

Leu Trp Val Leu Ala Ala Leu Leu Ala Met Pro Val Met Val Leu Arg
180 185 190

Thr Thr Gly Asp Leu Glu Asn Thr Thr Lys Val Gln Cys Tyr Met Asp
195 200 205

Tyr Ser Met Val Ala Thr Val Ser Ser Glu Trp Ala Trp Glu Val Gly
210 215 220

Leu Gly Val Ser Ser Thr Thr Val Gly Phe Val Val Pro Phe Thr Ile
225 230 235 240

Met Leu Thr Cys Tyr Gly Leu Met Ile Leu Arg Leu Lys Ser Val Arg
245 250 255

Met Leu Ser Gly Ser Lys Glu Lys Asp Arg Asn Leu Arg Arg Ile Leu
260 265 270

Ser Ile Ile Val Val Leu Val Val Thr Phe Ala Leu Cys Trp Met Pro
275 280 285

Tyr His Leu Val Lys Thr Leu Tyr Met Leu Gly Ser Leu Leu His Trp
290 295 300

Pro Cys Asp Phe Asp Leu Phe Leu Met Asn Ile Phe Pro Tyr Cys Thr
305 310 315 320

Cys Ile Ser Tyr Val Asn Ser Cys Leu Asn Pro Phe Leu Tyr Ala Phe
325 330 335

Leu Asp Glu Asn Phe Lys Arg Cys Phe Arg Glu Phe Cys Ile Pro Thr
340 345 350

Ser Ser Asn Ile
355

<210> 23
<211> 355
<212> PRT
<213> Artificial sequence

<220>
<223> OX2-MOR chimer

<400> 23

Met Ser Gly Thr Lys Leu Glu Asp Ser Pro Pro Cys Arg Asn Trp Ser
1 5 10 15

Ser Ala Ser Glu Leu Asn Glu Thr Gln Glu Pro Phe Leu Asn Pro Thr
20 25 30

Asp Tyr Asp Asp Glu Glu Phe Leu Arg Tyr Leu Trp Arg Glu Tyr Leu
35 40 45

His Pro Lys Glu Tyr Glu Trp Val Leu Ile Ala Gly Tyr Ile Ile Val
50 55 60

Phe Val Val Ala Leu Ile Gly Asn Val Leu Val Met Tyr Val Ile Val
65 70 75 80

Arg Tyr Thr Lys Met Lys Thr Ala Thr Asn Tyr Phe Ile Val Asn Leu
85 90 95

Ser Leu Ala Asp Val Leu Val Thr Ile Thr Cys Leu Pro Ala Thr Leu
100 105 110

Val Val Asp Ile Thr Glu Thr Trp Phe Phe Gly Gln Ser Leu Cys Lys
115 120 125

Val Ile Pro Tyr Leu Gln Thr Val Ser Val Ser Val Ser Val Leu Thr
130 135 140

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

Lys Ala Leu Asp Phe Arg Thr Pro Arg Asn Ala Arg Asn Ser Ile Val
165 170 175

Ile Ile Trp Ile Val Ser Cys Ile Ile Met Ile Pro Gln Ala Ile Val
180 185 190

Met Glu Cys Ser Thr Val Phe Pro Gly Leu Ala Asn Lys Thr Thr Leu
195 200 205

Phe Thr Val Cys Asp Glu Arg Trp Gly Gly Glu Ile Tyr Pro Lys Met
210 215 220

Tyr His Ile Cys Phe Phe Leu Val Thr Tyr Met Ala Pro Leu Cys Leu
225 230 235 240

Met Val Leu Ala Tyr Gly Leu Met Ile Leu Arg Leu Lys Ser Val Arg
245 250 255

Met Leu Ser Gly Ser Lys Glu Lys Asp Arg Ala Arg Arg Lys Thr Ala
260 265 270

Arg Met Leu Met Ile Val Leu Leu Val Phe Ala Ile Cys Tyr Leu Pro
275 280 285

Ile Ser Ile Leu Asn Val Leu Lys Arg Val Phe Gly Met Phe Ala His
290 295 300

Thr Glu Asp Arg Glu Thr Val Tyr Ala Trp Phe Thr Phe Ser His Trp
305 310 315 320

Leu Val Tyr Ala Asn Ser Ala Ala Asn Pro Ile Ile Tyr Ala Phe Leu
325 330 335

Asp Glu Asn Phe Lys Arg Cys Phe Arg Glu Phe Cys Ile Pro Thr Ser
340 345 350

Ser Asn Ile
355

<210> 24
<211> 122
<212> PRT
<213> Artificial sequence

<220>
<223> XA8633

<400> 24

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

Ser Arg Arg Leu Ser Cys Val Asp Ser Glu Arg Thr Ser Tyr Pro Met
20 25 30

Gly Trp Phe Arg Arg Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ser
35 40 45

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

Arg Phe Thr Ile Ser Arg Asp Val Ala Asn Asn Thr Leu Tyr Leu Gln
65 70 75 80

Met Asn Ser Leu Lys His Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
85 90 95

Arg Ala Pro Val Gly Gln Ser Ser Ser Pro Tyr Asp Tyr Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 25
<211> 121
<212> PRT
<213> Artificial sequence

<220>
<223> Nb 9-8

<400> 25

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Asp Asn Phe
20 25 30

Asp Asp Tyr Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Gln Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Asp Pro Ser Asp Gly Ser Thr Ile Tyr Ala
50 55 60

Asp Ser Ala Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Glu Asn
65 70 75 80

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

Tyr Val Cys Ser Ala Trp Thr Leu Phe His Ser Asp Glu Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 26
<211> 120
<212> PRT
<213> Artificial sequence

<220>
<223> CA2780

<400> 26

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ile Asn
20 25 30

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

Ala Ala Ile His Ser Gly Gly Ser Thr Asn Tyr Ala Asn Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Ala Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Val Lys Asp Tyr Gly Ala Val Leu Tyr Glu Tyr Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120