

Sequence-draft5.ST25  
SEQUENCE LISTING

<110> Université de Genève  
<120> Modulators of Talin/Integrin association and use thereof  
<130> P-54-647-PCT  
<150> US 60/876,459  
<151> 2006-12-22  
<160> 25  
<170> PatentIn version 3.3  
<210> 1  
<211> 10  
<212> PRT  
<213> Artificial  
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<223> Synthetic Construct  
  
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<221> MISC\_FEATURE  
<222> (1)..(1)  
<223> Xaa is an optional membrane anchor Z  
  
<220>  
<221> MISC\_FEATURE  
<222> (2)..(2)  
<223> Xaa is selected from Asp and Glu  
  
<220>  
<221> MISC\_FEATURE  
<222> (3)..(3)  
<223> Xaa is selected from Lys, Arg, Gln, Asn, Val, Leu, Ser, Ala and Thr  
  
<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> Xaa is selected from Lys and Arg  
  
<220>  
<221> MISC\_FEATURE  
<222> (5)..(5)  
<223> Xaa is selected from Asp and Glu  
  
<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> Xaa is selected from Ala, Ser, Thr and Val  
  
<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> Xaa is selected from Ala, Ser, Thr and Val  
  
<220>  
<221> MISC\_FEATURE  
<222> (8)..(8)  
<223> Xaa is selected from Lys, Arg, Leu, Ile and Val  
  
<220>  
<221> MISC\_FEATURE  
<222> (10)..(10)  
<223> Xaa is selected from (-X6), (-X6-X7), (-X6-X7-X8) wherein X6 is

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selected from Asn, Gln, Glu and Ala; X7 is selected from Arg, Lys, Gln, Glu and Asn and X8 is selected from Glu and Asp.

<400> 1

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa  
1 5 10

<210> 2

<211> 4

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 2

Glu Glu Phe Glu  
1

<210> 3

<211> 4

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 3

Glu Glu Ile Glu  
1

<210> 4

<211> 4

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 4

Glu Glu Leu Glu  
1

<210> 5

<211> 4

<212> PRT

<213> Artificial

<220>

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<400> 5

Glu Glu Phe Asp  
1

<210> 6

<211> 4

<212> PRT

<213> Artificial

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<220>  
<223> Synthetic Construct

<400> 6

Glu Glu Ile Asp  
1

<210> 7  
<211> 4  
<212> PRT  
<213> Artificial

<220>  
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<400> 7

Glu Glu Leu Asp  
1

<210> 8  
<211> 11  
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<220>  
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<400> 8

Asp Arg Lys Glu Ala Ala Lys Ala Glu Glu Glu  
1 5 10

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<400> 9

Asp Arg Lys Glu Ala Ala Lys Ala Glu Lys Glu  
1 5 10

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<220>  
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<400> 10

Asp Arg Lys Glu Ala Ala Lys Ala Gln Glu Glu  
1 5 10

<210> 11  
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<400> 11

Asp Arg Lys Glu Ala Ala Lys Ala Gln Lys Glu  
1 5 10

<210> 12

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<400> 12

Asp Ala Lys Glu Ala Ala Lys Ala Glu Glu Glu  
1 5 10

<210> 13

<211> 11

<212> PRT

<213> Artificial

<220>

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<400> 13

Asp Ala Lys Glu Ala Ala Lys Ala Glu Lys Glu  
1 5 10

<210> 14

<211> 11

<212> PRT

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<220>

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<400> 14

Asp Ala Lys Glu Ala Ala Lys Ala Gln Glu Glu  
1 5 10

<210> 15

<211> 11

<212> PRT

<213> Artificial

<220>

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<400> 15

Asp Ala Lys Glu Ala Ala Lys Ala Gln Lys Glu  
1 5 10

<210> 16

<211> 11

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<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 16

Asp Arg Lys Glu Ala Ala Leu Ala Glu Glu Glu  
1 5 10

<210> 17

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 17

Asp Arg Lys Glu Ala Ala Leu Ala Glu Lys Glu  
1 5 10

<210> 18

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 18

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

<210> 19

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 19

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

<210> 20

<211> 9

<212> PRT

<213> Artificial

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<400> 20

Asp Arg Lys Glu Val Ala Leu Ala Glu  
1 5

<210> 21

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

<220>  
 <223> Synthetic Construct

<400> 21

Asp Arg Lys Glu Val Ala Leu Ala Glu Glu Phe Glu  
 1 5 10

<210> 22  
 <211> 2541  
 <212> PRT  
 <213> Homo sapiens

<400> 22

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

Met Gln Phe Glu Pro Ser Thr Met Val Tyr Asp Ala Cys Arg Ile Ile  
 20 25 30

Arg Glu Arg Ile Pro Glu Ala Pro Ala Gly Pro Pro Ser Asp Phe Gly  
 35 40 45

Leu Phe Leu Ser Asp Asp Asp Pro Lys Lys Gly Ile Trp Leu Glu Ala  
 50 55 60

Gly Lys Ala Leu Asp Tyr Tyr Met Leu Arg Asn Gly Asp Thr Met Glu  
 65 70 75 80

Tyr Arg Lys Lys Gln Arg Pro Leu Lys Ile Arg Met Leu Asp Gly Thr  
 85 90 95

Val Lys Thr Ile Met Val Asp Asp Ser Lys Thr Val Thr Asp Met Leu  
 100 105 110

Met Thr Ile Cys Ala Arg Ile Gly Ile Thr Asn His Asp Glu Tyr Ser  
 115 120 125

Leu Val Arg Glu Leu Met Glu Glu Lys Lys Glu Glu Ile Thr Gly Thr  
 130 135 140

Leu Arg Lys Asp Lys Thr Leu Leu Arg Asp Glu Lys Lys Met Glu Lys  
 145 150 155 160

Leu Lys Gln Lys Leu His Thr Asp Asp Glu Leu Asn Trp Leu Asp His  
 165 170 175

Gly Arg Thr Leu Arg Glu Gln Gly Val Glu Glu His Glu Thr Leu Leu  
 180 185 190

Leu Arg Arg Lys Phe Phe Tyr Ser Asp Gln Asn Val Asp Ser Arg Asp  
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Pro Val Gln Leu Asn Leu Leu Tyr Val Gln Ala Arg Asp Asp Ile Leu  
210 215 220

Asn Gly Ser His Pro Val Ser Phe Asp Lys Ala Cys Glu Phe Ala Gly  
225 230 235 240

Phe Gln Cys Gln Ile Gln Phe Gly Pro His Asn Glu Gln Lys His Lys  
245 250 255

Ala Gly Phe Leu Asp Leu Lys Asp Phe Leu Pro Lys Glu Tyr Val Lys  
260 265 270

Gln Lys Gly Glu Arg Lys Ile Phe Gln Ala His Lys Asn Cys Gly Gln  
275 280 285

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

Leu Lys Thr Tyr Gly Val Ser Phe Phe Leu Val Lys Glu Lys Met Lys  
305 310 315 320

Gly Lys Asn Lys Leu Val Pro Arg Leu Leu Gly Ile Thr Lys Glu Cys  
325 330 335

Val Met Arg Val Asp Glu Lys Thr Lys Glu Val Ile Gln Glu Trp Asn  
340 345 350

Leu Thr Asn Ile Lys Arg Trp Ala Ala Ser Pro Lys Ser Phe Thr Leu  
355 360 365

Asp Phe Gly Asp Tyr Gln Asp Gly Tyr Tyr Ser Val Gln Thr Thr Glu  
370 375 380

Gly Glu Gln Ile Ala Gln Leu Ile Ala Gly Tyr Ile Asp Ile Ile Leu  
385 390 395 400

Lys Lys Lys Lys Ser Lys Asp His Phe Gly Leu Glu Gly Asp Glu Glu  
405 410 415

Ser Thr Met Leu Glu Asp Ser Val Ser Pro Lys Lys Ser Thr Val Leu  
420 425 430

Gln Gln Gln Tyr Asn Arg Val Gly Lys Val Glu His Gly Ser Val Ala  
435 440 445

Leu Pro Ala Ile Met Arg Ser Gly Ala Ser Gly Pro Glu Asn Phe Gln  
450 455 460

Val Gly Ser Met Pro Pro Ala Gln Gln Gln Ile Thr Ser Gly Gln Met  
465 470 475 480

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His Arg Gly His Met Pro Pro Leu Thr Ser Ala Gln Gln Ala Leu Thr  
485 490 495

Gly Thr Ile Asn Ser Ser Met Gln Ala Val Gln Ala Ala Gln Ala Thr  
500 505 510

Leu Asp Asp Phe Asp Thr Leu Pro Pro Leu Gly Gln Asp Ala Ala Ser  
515 520 525

Lys Ala Trp Arg Lys Asn Lys Met Asp Glu Ser Lys His Glu Ile His  
530 535 540

Ser Gln Val Asp Ala Ile Thr Ala Gly Thr Ala Ser Val Val Asn Leu  
545 550 555 560

Thr Ala Gly Asp Pro Ala Glu Thr Asp Tyr Thr Ala Val Gly Cys Ala  
565 570 575

Val Thr Thr Ile Ser Ser Asn Leu Thr Glu Met Ser Arg Gly Val Lys  
580 585 590

Leu Leu Ala Ala Leu Leu Glu Asp Glu Gly Gly Ser Gly Arg Pro Leu  
595 600 605

Leu Gln Ala Ala Lys Gly Leu Ala Gly Ala Val Ser Glu Leu Leu Arg  
610 615 620

Ser Ala Gln Pro Ala Ser Ala Glu Pro Arg Gln Asn Leu Leu Gln Ala  
625 630 635 640

Ala Gly Asn Val Gly Gln Ala Ser Gly Glu Leu Leu Gln Gln Ile Gly  
645 650 655

Glu Ser Asp Thr Asp Pro His Phe Gln Asp Ala Leu Met Gln Leu Ala  
660 665 670

Lys Ala Val Ala Ser Ala Ala Ala Ala Leu Val Leu Lys Ala Lys Ser  
675 680 685

Val Ala Gln Arg Thr Glu Asp Ser Gly Leu Gln Thr Gln Val Ile Ala  
690 695 700

Ala Ala Thr Gln Cys Ala Leu Ser Thr Ser Gln Leu Val Ala Cys Thr  
705 710 715 720

Lys Val Val Ala Pro Thr Ile Ser Ser Pro Val Cys Gln Glu Gln Leu  
725 730 735

Val Glu Ala Gly Arg Leu Val Ala Lys Ala Val Glu Gly Cys Val Ser  
740 745 750



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Ala Ser Gln Ala Ala Thr Glu Asp Gly Gln Leu Leu Arg Gly Val Gly  
755 760 765

Ala Ala Ala Thr Ala Val Thr Gln Ala Leu Asn Glu Leu Leu Gln His  
770 775 780

Val Lys Ala His Ala Thr Gly Ala Gly Pro Ala Gly Arg Tyr Asp Gln  
785 790 795 800

Ala Thr Asp Thr Ile Leu Thr Val Thr Glu Asn Ile Phe Ser Ser Met  
805 810 815

Gly Asp Ala Gly Glu Met Val Gly Gln Ala Arg Ile Leu Ala Gln Ala  
820 825 830

Thr Ser Asp Leu Val Asn Ala Ile Lys Ala Asp Ala Glu Gly Glu Ser  
835 840 845

Asp Leu Glu Asn Ser Arg Lys Leu Leu Ser Ala Ala Lys Ile Leu Ala  
850 855 860

Asp Ala Thr Ala Lys Met Val Glu Ala Ala Lys Gly Ala Ala Ala His  
865 870 875 880

Pro Asp Ser Glu Glu Gln Gln Gln Arg Leu Arg Glu Ala Ala Glu Gly  
885 890 895

Leu Arg Met Ala Thr Asn Ala Ala Ala Gln Asn Ala Ile Lys Lys Lys  
900 905 910

Leu Val Gln Arg Leu Glu His Ala Ala Lys Gln Ala Ala Ala Ser Ala  
915 920 925

Thr Gln Thr Ile Ala Ala Ala Gln His Ala Ala Ser Thr Pro Lys Ala  
930 935 940

Ser Ala Gly Pro Gln Pro Leu Leu Val Gln Ser Cys Lys Ala Val Ala  
945 950 955 960

Glu Gln Ile Pro Leu Leu Val Gln Gly Val Arg Gly Ser Gln Ala Gln  
965 970 975

Pro Asp Ser Pro Ser Ala Gln Leu Ala Leu Ile Ala Ala Ser Gln Ser  
980 985 990

Phe Leu Gln Pro Gly Gly Lys Met Val Ala Ala Ala Lys Ala Ser Val  
995 1000 1005

Pro Thr Ile Gln Asp Gln Ala Ser Ala Met Gln Leu Ser Gln Cys  
1010 1015 1020

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Ala	Lys	Asn	Leu	Gly	Thr	Ala	Leu	Ala	Glu	Leu	Arg	Thr	Ala	Ala
1025						1030					1035			
Gln	Lys	Ala	Gln	Glu	Ala	Cys	Gly	Pro	Leu	Glu	Met	Asp	Ser	Ala
1040						1045					1050			
Leu	Ser	Val	Val	Gln	Asn	Leu	Glu	Lys	Asp	Leu	Gln	Glu	Val	Lys
1055						1060					1065			
Ala	Ala	Ala	Arg	Asp	Gly	Lys	Leu	Lys	Pro	Leu	Pro	Gly	Glu	Thr
1070						1075					1080			
Met	Glu	Lys	Cys	Thr	Gln	Asp	Leu	Gly	Asn	Ser	Thr	Lys	Ala	Val
1085						1090					1095			
Ser	Ser	Ala	Ile	Ala	Gln	Leu	Leu	Gly	Glu	Val	Ala	Gln	Gly	Asn
1100						1105					1110			
Glu	Asn	Tyr	Ala	Gly	Ile	Ala	Ala	Arg	Asp	Val	Ala	Gly	Gly	Leu
1115						1120					1125			
Arg	Ser	Leu	Ala	Gln	Ala	Ala	Arg	Gly	Val	Ala	Ala	Leu	Thr	Ser
1130						1135					1140			
Asp	Pro	Ala	Val	Gln	Ala	Ile	Val	Leu	Asp	Thr	Ala	Ser	Asp	Val
1145						1150					1155			
Leu	Asp	Lys	Ala	Ser	Ser	Leu	Ile	Glu	Glu	Ala	Lys	Lys	Ala	Ala
1160						1165					1170			
Gly	His	Pro	Gly	Asp	Pro	Glu	Ser	Gln	Gln	Arg	Leu	Ala	Gln	Val
1175						1180					1185			
Ala	Lys	Ala	Val	Thr	Gln	Ala	Leu	Asn	Arg	Cys	Val	Ser	Cys	Leu
1190						1195					1200			
Pro	Gly	Gln	Arg	Asp	Val	Asp	Asn	Ala	Leu	Arg	Ala	Val	Gly	Asp
1205						1210					1215			
Ala	Ser	Lys	Arg	Leu	Leu	Ser	Asp	Ser	Leu	Pro	Pro	Ser	Thr	Gly
1220						1225					1230			
Thr	Phe	Gln	Glu	Ala	Gln	Ser	Arg	Leu	Asn	Glu	Ala	Ala	Ala	Gly
1235						1240					1245			
Leu	Asn	Gln	Ala	Ala	Thr	Glu	Leu	Val	Gln	Ala	Ser	Arg	Gly	Thr
1250						1255					1260			
Pro	Gln	Asp	Leu	Ala	Arg	Ala	Ser	Gly	Arg	Phe	Gly	Gln	Asp	Phe
1265						1270					1275			
Ser	Thr	Phe	Leu	Glu	Ala	Gly	Val	Glu	Met	Ala	Gly	Gln	Ala	Pro

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1280

1285

1290

Ser Gln Glu Asp Arg Ala Gln Val Val Ser Asn Leu Lys Gly Ile  
 1295 1300 1305  
 Ser Met Ser Ser Ser Lys Leu Leu Leu Ala Ala Lys Ala Leu Ser  
 1310 1315 1320  
 Thr Asp Pro Ala Ala Pro Asn Leu Lys Ser Gln Leu Ala Ala Ala  
 1325 1330 1335  
 Ala Arg Ala Val Thr Asp Ser Ile Asn Gln Leu Ile Thr Met Cys  
 1340 1345 1350  
 Thr Gln Gln Ala Pro Gly Gln Lys Glu Cys Asp Asn Ala Leu Arg  
 1355 1360 1365  
 Glu Leu Glu Thr Val Arg Glu Leu Leu Glu Asn Pro Val Gln Pro  
 1370 1375 1380  
 Ile Asn Asp Met Ser Tyr Phe Gly Cys Leu Asp Ser Val Met Glu  
 1385 1390 1395  
 Asn Ser Lys Val Leu Gly Glu Ala Met Thr Gly Ile Ser Gln Asn  
 1400 1405 1410  
 Ala Lys Asn Gly Asn Leu Pro Glu Phe Gly Asp Ala Ile Ser Thr  
 1415 1420 1425  
 Ala Ser Lys Ala Leu Cys Gly Phe Thr Glu Ala Ala Ala Gln Ala  
 1430 1435 1440  
 Ala Tyr Leu Val Gly Val Ser Asp Pro Asn Ser Gln Ala Gly Gln  
 1445 1450 1455  
 Gln Gly Leu Val Glu Pro Thr Gln Phe Ala Arg Ala Asn Gln Ala  
 1460 1465 1470  
 Ile Gln Met Ala Cys Gln Ser Leu Gly Glu Pro Gly Cys Thr Gln  
 1475 1480 1485  
 Ala Gln Val Leu Ser Ala Ala Thr Ile Val Ala Lys His Thr Ser  
 1490 1495 1500  
 Ala Leu Cys Asn Ser Cys Arg Leu Ala Ser Ala Arg Thr Thr Asn  
 1505 1510 1515  
 Pro Thr Ala Lys Arg Gln Phe Val Gln Ser Ala Lys Glu Val Ala  
 1520 1525 1530  
 Asn Ser Thr Ala Asn Leu Val Lys Thr Ile Lys Ala Leu Asp Gly  
 1535 1540 1545

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Pro Phe Thr Glu Glu Asn Arg Ala Gln Cys Arg Ala Ala Thr Ala  
1550 1555 1560

Pro Leu Leu Glu Ala Val Asp Asn Leu Ser Ala Phe Ala Ser Asn  
1565 1570 1575

Pro Glu Phe Ser Ser Ile Pro Ala Gln Ile Ser Pro Glu Gly Arg  
1580 1585 1590

Ala Ala Met Glu Pro Ile Val Ile Ser Ala Gln Thr Met Leu Glu  
1595 1600 1605

Ser Ala Gly Gly Leu Ile Gln Thr Ala Arg Ala Leu Ala Val Asn  
1610 1615 1620

Pro Arg Asp Pro Pro Ser Trp Ser Val Leu Ala Gly His Ser Arg  
1625 1630 1635

Thr Val Ser Asp Ser Ile Lys Lys Leu Ile Thr Ser Met Arg Asp  
1640 1645 1650

Lys Ala Pro Gly Gln Leu Glu Cys Glu Thr Ala Ile Ala Ala Leu  
1655 1660 1665

Asn Ser Cys Leu Arg Asp Leu Asp Gln Ala Ser Leu Ala Ala Val  
1670 1675 1680

Ser Gln Gln Leu Ala Pro Arg Glu Gly Ile Ser Gln Glu Ala Leu  
1685 1690 1695

His Thr Glu Met Leu Thr Ala Val Gln Glu Ile Ser His Leu Ile  
1700 1705 1710

Glu Pro Leu Ala His Ala Ala Arg Ala Glu Ala Ser Gln Leu Gly  
1715 1720 1725

His Lys Val Ser Gln Met Ala Gln Tyr Phe Glu Pro Leu Thr Leu  
1730 1735 1740

Ala Ala Val Gly Ala Ala Ser Lys Thr Leu Ser His Pro Gln Gln  
1745 1750 1755

Met Ala Leu Leu Asp Gln Thr Lys Thr Leu Ala Glu Ser Ala Leu  
1760 1765 1770

Gln Leu Leu Tyr Thr Ala Lys Glu Ala Gly Gly Asn Pro Lys Gln  
1775 1780 1785

Ala Ala His Thr Gln Glu Ala Leu Glu Glu Ala Val Gln Met Met  
1790 1795 1800

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Thr	Glu 1805	Ala	Val	Glu	Asp	Leu 1810	Thr	Thr	Thr	Leu	Asn 1815	Glu	Ala	Ala
Ser	Ala 1820	Ala	Gly	Val	Val	Gly 1825	Gly	Met	Val	Asp	Ser 1830	Ile	Thr	Gln
Ala	Ile 1835	Asn	Gln	Leu	Asp	Glu 1840	Gly	Pro	Met	Gly	Glu 1845	Pro	Glu	Gly
Ser	Phe 1850	Val	Asp	Tyr	Gln	Thr 1855	Thr	Met	Val	Arg	Thr 1860	Ala	Lys	Ala
Ile	Ala 1865	Val	Thr	Val	Gln	Glu 1870	Met	Val	Thr	Lys	Ser 1875	Asn	Thr	Ser
Pro	Glu 1880	Glu	Leu	Gly	Pro	Leu 1885	Ala	Asn	Gln	Leu	Thr 1890	Ser	Asp	Tyr
Gly	Arg 1895	Leu	Ala	Ser	Glu	Ala 1900	Lys	Pro	Ala	Ala	Val 1905	Ala	Ala	Glu
Asn	Glu 1910	Glu	Ile	Gly	Ser	His 1915	Ile	Lys	His	Arg	Val 1920	Gln	Glu	Leu
Gly	His 1925	Gly	Cys	Ala	Ala	Leu 1930	Val	Thr	Lys	Ala	Gly 1935	Ala	Leu	Gln
Cys	Ser 1940	Pro	Ser	Asp	Ala	Tyr 1945	Thr	Lys	Lys	Glu	Leu 1950	Ile	Glu	Cys
Ala	Arg 1955	Arg	Val	Ser	Glu	Lys 1960	Val	Ser	His	Val	Leu 1965	Ala	Ala	Leu
Gln	Ala 1970	Gly	Asn	Arg	Gly	Thr 1975	Gln	Ala	Cys	Ile	Thr 1980	Ala	Ala	Ser
Ala	Val 1985	Ser	Gly	Ile	Ile	Ala 1990	Asp	Leu	Asp	Thr	Thr 1995	Ile	Met	Phe
Ala	Thr 2000	Ala	Gly	Thr	Leu	Asn 2005	Arg	Glu	Gly	Thr	Glu 2010	Thr	Phe	Ala
Asp	His 2015	Arg	Glu	Gly	Ile	Leu 2020	Lys	Thr	Ala	Lys	Val 2025	Leu	Val	Glu
Asp	Thr 2030	Lys	Val	Leu	Val	Gln 2035	Asn	Ala	Ala	Gly	Ser 2040	Gln	Glu	Lys
Leu	Ala 2045	Gln	Ala	Ala	Gln	Ser 2050	Ser	Val	Ala	Thr	Ile 2055	Thr	Arg	Leu

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Ala	Asp	Val	Val	Lys	Leu	Gly	Ala	Ala	Ser	Leu	Gly	Ala	Glu	Asp
2060						2065					2070			
Pro	Glu	Thr	Gln	Val	Val	Leu	Ile	Asn	Ala	Val	Lys	Asp	Val	Ala
2075						2080					2085			
Lys	Ala	Leu	Gly	Asp	Leu	Ile	Ser	Ala	Thr	Lys	Ala	Ala	Ala	Gly
2090						2095					2100			
Lys	Val	Gly	Asp	Asp	Pro	Ala	Val	Trp	Gln	Leu	Lys	Asn	Ser	Ala
2105						2110					2115			
Lys	Val	Met	Val	Thr	Asn	Val	Thr	Ser	Leu	Leu	Lys	Thr	Val	Lys
2120						2125					2130			
Ala	Val	Glu	Asp	Glu	Ala	Thr	Lys	Gly	Thr	Arg	Ala	Leu	Glu	Ala
2135						2140					2145			
Thr	Thr	Glu	His	Ile	Arg	Gln	Glu	Leu	Ala	Val	Phe	Cys	Ser	Pro
2150						2155					2160			
Glu	Pro	Pro	Ala	Lys	Thr	Ser	Thr	Pro	Glu	Asp	Phe	Ile	Arg	Met
2165						2170					2175			
Thr	Lys	Gly	Ile	Thr	Met	Ala	Thr	Ala	Lys	Ala	Val	Ala	Ala	Gly
2180						2185					2190			
Asn	Ser	Cys	Arg	Gln	Glu	Asp	Val	Ile	Ala	Thr	Ala	Asn	Leu	Ser
2195						2200					2205			
Arg	Arg	Ala	Ile	Ala	Asp	Met	Leu	Arg	Ala	Cys	Lys	Glu	Ala	Ala
2210						2215					2220			
Tyr	His	Pro	Glu	Val	Ala	Pro	Asp	Val	Arg	Leu	Arg	Ala	Leu	His
2225						2230					2235			
Tyr	Gly	Arg	Glu	Cys	Ala	Asn	Gly	Tyr	Leu	Glu	Leu	Leu	Asp	His
2240						2245					2250			
Val	Leu	Leu	Thr	Leu	Gln	Lys	Pro	Ser	Pro	Glu	Leu	Lys	Gln	Gln
2255						2260					2265			
Leu	Thr	Gly	His	Ser	Lys	Arg	Val	Ala	Gly	Ser	Val	Thr	Glu	Leu
2270						2275					2280			
Ile	Gln	Ala	Ala	Glu	Ala	Met	Lys	Gly	Thr	Glu	Trp	Val	Asp	Pro
2285						2290					2295			
Glu	Asp	Pro	Thr	Val	Ile	Ala	Glu	Asn	Glu	Leu	Leu	Gly	Ala	Ala
2300						2305					2310			
Ala	Ala	Ile	Glu	Ala	Ala	Ala	Lys	Lys	Leu	Glu	Gln	Leu	Lys	Pro

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2315

2320

2325

Arg Ala Lys Pro Lys Glu Ala Asp Glu Ser Leu Asn Phe Glu Glu  
2330 2335 2340

Gln Ile Leu Glu Ala Ala Lys Ser Ile Ala Ala Ala Thr Ser Ala  
2345 2350 2355

Leu Val Lys Ala Ala Ser Ala Ala Gln Arg Glu Leu Val Ala Gln  
2360 2365 2370

Gly Lys Val Gly Ala Ile Pro Ala Asn Ala Leu Asp Asp Gly Gln  
2375 2380 2385

Trp Ser Gln Gly Leu Ile Ser Ala Ala Arg Met Val Ala Ala Ala  
2390 2395 2400

Thr Asn Asn Leu Cys Glu Ala Ala Asn Ala Ala Val Gln Gly His  
2405 2410 2415

Ala Ser Gln Glu Lys Leu Ile Ser Ser Ala Lys Gln Val Ala Ala  
2420 2425 2430

Ser Thr Ala Gln Leu Leu Val Ala Cys Lys Val Lys Ala Asp Gln  
2435 2440 2445

Asp Ser Glu Ala Met Lys Arg Leu Gln Ala Ala Gly Asn Ala Val  
2450 2455 2460

Lys Arg Ala Ser Asp Asn Leu Val Lys Ala Ala Gln Lys Ala Ala  
2465 2470 2475

Ala Phe Glu Glu Gln Glu Asn Glu Thr Val Val Val Lys Glu Lys  
2480 2485 2490

Met Val Gly Gly Ile Ala Gln Ile Ile Ala Ala Gln Glu Glu Met  
2495 2500 2505

Leu Arg Lys Glu Arg Glu Leu Glu Glu Ala Arg Lys Lys Leu Ala  
2510 2515 2520

Gln Ile Arg Gln Gln Gln Tyr Lys Phe Leu Pro Ser Glu Leu Arg  
2525 2530 2535

Asp Glu His  
2540

<210> 23  
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<212> DNA  
<213> Artificial

<220>

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<223> Primer

<400> 23

gatctcgagc catggttgca ctttcactg

29

<210> 24

<211> 28

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 24

tatgaattct attgctgctg caggactg

28

<210> 25

<211> 47

<212> PRT

<213> Mus musculus

<400> 25

Lys Leu Leu Ile Thr Ile His Asp Arg Lys Glu Phe Ala Lys Phe Glu  
1 5 10 15

Glu Glu Arg Ala Arg Ala Lys Trp Asp Thr Ala Asn Asn Pro Leu Tyr  
20 25 30

Lys Glu Ala Thr Ser Thr Phe Thr Asn Ile Thr Tyr Arg Gly Thr  
35 40 45