

SEQUENCE LISTING

<110> NightstaRx Limited

<120> PRENYLATION ASSAY

<130> P108257PCT

<150> GB 1604146.9

<151> 2016-03-10

<160> 9

<170> PatentIn version 3.5

<210> 1

<211> 208

<212> PRT

<213> Homo sapiens

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

Ser	Tyr	Ile	Arg	Asp	Ser	Thr	Val	Ala	Val	Val	Val	Tyr	Asp	Ile	Thr
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Asn	Val	Asn	Ser	Phe	Gln	Gln	Thr	Thr	Lys	Trp	Ile	Asp	Asp	Val	Arg
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Thr Glu Arg Gly Ser Asp Val Ile Ile Met Leu Val Gly Asn Lys Thr
115 120 125

Asp Leu Ala Asp Lys Arg Gln Val Ser Ile Glu Glu Gly Glu Arg Lys
130 135 140

Ala Lys Glu Leu Asn Val Met Phe Ile Glu Thr Ser Ala Lys Ala Gly
145 150 155 160

Tyr Asn Val Lys Gln Leu Phe Arg Arg Val Ala Ala Ala Leu Pro Gly
165 170 175

Met Glu Ser Thr Gln Asp Arg Ser Arg Glu Asp Met Ile Asp Ile Lys
180 185 190

Leu Glu Lys Pro Gln Glu Gln Pro Val Ser Glu Gly Gly Cys Ser Cys
195 200 205

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<212> DNA
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<210> 3
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<212> PRT
<213> Homo sapiens

<400> 3

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20 25 30

Gln Ala Val Phe Gln Lys Arg Gln Ala Gly Glu Leu Asp Glu Ser Val
35 40 45

Leu Glu Leu Thr Ser Gln Ile Leu Gly Ala Asn Pro Asp Phe Ala Thr
50 55 60

Leu Trp Asn Cys Arg Arg Glu Val Leu Gln Gln Leu Glu Thr Gln Lys
65 70 75 80

Ser Pro Glu Glu Leu Ala Ala Leu Val Lys Ala Glu Leu Gly Phe Leu
85 90 95

Glu Ser Cys Leu Arg Val Asn Pro Lys Ser Tyr Gly Thr Trp His His
100 105 110

Arg Cys Trp Leu Leu Gly Arg Leu Pro Glu Pro Asn Trp Thr Arg Glu
115 120 125

Leu Glu Leu Cys Ala Arg Phe Leu Glu Val Asp Glu Arg Asn Phe His
130 135 140

Cys Trp Asp Tyr Arg Arg Phe Val Ala Thr Gln Ala Ala Val Pro Pro
145 150 155 160

Ala Glu Glu Leu Ala Phe Thr Asp Ser Leu Ile Thr Arg Asn Phe Ser
165 170 175

Asn Tyr Ser Ser Trp His Tyr Arg Ser Cys Leu Leu Pro Gln Leu His
180 185 190

Pro Gln Pro Asp Ser Gly Pro Gln Gly Arg Leu Pro Glu Asp Val Leu
195 200 205

Leu Lys Glu Leu Glu Leu Val Gln Asn Ala Phe Phe Thr Asp Pro Asn
210 215 220

Asp Gln Ser Ala Trp Phe Tyr His Arg Trp Leu Leu Gly Arg Ala Asp
225 230 235 240

Pro Gln Asp Ala Leu Arg Cys Leu His Val Ser Arg Asp Glu Ala Cys
245 250 255

Leu Thr Val Ser Phe Ser Arg Pro Leu Leu Val Gly Ser Arg Met Glu
260 265 270

Ile Leu Leu Leu Met Val Asp Asp Ser Pro Leu Ile Val Glu Trp Arg
275 280 285

Thr Pro Asp Gly Arg Asn Arg Pro Ser His Val Trp Leu Cys Asp Leu
290 295 300

Pro Ala Ala Ser Leu Asn Asp Gln Leu Pro Gln His Thr Phe Arg Val
305 310 315 320

Ile Trp Thr Ala Gly Asp Val Gln Lys Glu Cys Val Leu Leu Lys Gly
325 330 335

Arg Gln Glu Gly Trp Cys Arg Asp Ser Thr Thr Asp Glu Gln Leu Phe
340 345 350

Arg Cys Glu Leu Ser Val Glu Lys Ser Thr Val Leu Gln Ser Glu Leu
355 360 365

Glu Ser Cys Lys Glu Leu Gln Glu Leu Glu Pro Glu Asn Lys Trp Cys
370 375 380

Leu Leu Thr Ile Ile Leu Leu Met Arg Ala Leu Asp Pro Leu Leu Tyr
385 390 395 400

Glu Lys Glu Thr Leu Gln Tyr Phe Gln Thr Leu Lys Ala Val Asp Pro
405 410 415

Met Arg Ala Thr Tyr Leu Asp Asp Leu Arg Ser Lys Phe Leu Leu Glu
420 425 430

Asn Ser Val Leu Lys Met Glu Tyr Ala Glu Val Arg Val Leu His Leu
435 440 445

Ala His Lys Asp Leu Thr Val Leu Cys His Leu Glu Gln Leu Leu Leu
450 455 460

Val Thr His Leu Asp Leu Ser His Asn Arg Leu Arg Thr Leu Pro Pro
465 470 475 480

Ala Leu Ala Ala Leu Arg Cys Leu Glu Val Leu Gln Ala Ser Asp Asn
485 490 495

Ala Ile Glu Ser Leu Asp Gly Val Thr Asn Leu Pro Arg Leu Gln Glu
500 505 510

Leu Leu Leu Cys Asn Asn Arg Leu Gln Gln Pro Ala Val Leu Gln Pro
515 520 525

Leu Ala Ser Cys Pro Arg Leu Val Leu Leu Asn Leu Gln Gly Asn Pro
530 535 540

Leu Cys Gln Ala Val Gly Ile Leu Glu Gln Leu Ala Glu Leu Leu Pro
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Ser Val Ser Ser Val Leu Thr
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<212> PRT
<213> Homo sapiens

<400> 4

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20 25 30

Lys Lys Asp Asp Tyr Glu Tyr Cys Met Ser Glu Tyr Leu Arg Met Ser
35 40 45

Gly Ile Tyr Trp Gly Leu Thr Val Met Asp Leu Met Gly Gln Leu His
50 55 60

Arg Met Asn Arg Glu Glu Ile Leu Ala Phe Ile Lys Ser Cys Gln His
65 70 75 80

Glu Cys Gly Gly Ile Ser Ala Ser Ile Gly His Asp Pro His Leu Leu
85 90 95

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

Val Ile Asp Val Asn Lys Val Val Glu Tyr Val Lys Gly Leu Gln Lys
115 120 125

Glu Asp Gly Ser Phe Ala Gly Asp Ile Trp Gly Glu Ile Asp Thr Arg
130 135 140

Phe Ser Phe Cys Ala Val Ala Thr Leu Ala Leu Leu Gly Lys Leu Asp
145 150 155 160

Ala Ile Asn Val Glu Lys Ala Ile Glu Phe Val Leu Ser Cys Met Asn
165 170 175

Phe Asp Gly Gly Phe Gly Cys Arg Pro Gly Ser Glu Ser His Ala Gly
180 185 190

Gln Ile Tyr Cys Cys Thr Gly Phe Leu Ala Ile Thr Ser Gln Leu His
195 200 205

Gln Val Asn Ser Asp Leu Leu Gly Trp Trp Leu Cys Glu Arg Gln Leu
210 215 220

Pro Ser Gly Gly Leu Asn Gly Arg Pro Glu Lys Leu Pro Asp Val Cys
225 230 235 240

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

Trp Ile Asp Arg Glu Lys Leu Arg Asn Phe Ile Leu Ala Cys Gln Asp
260 265 270

Glu Glu Thr Gly Gly Phe Ala Asp Arg Pro Gly Asp Met Val Asp Pro
275 280 285

Phe His Thr Leu Phe Gly Ile Ala Gly Leu Ser Leu Leu Gly Glu Glu
290 295 300

Gln Ile Lys Pro Val Asn Pro Val Phe Cys Met Pro Glu Glu Val Leu
305 310 315 320

Gln Arg Val Asn Val Gln Pro Glu Leu Val Ser
325 330

<210> 5
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<212> PRT
<213> Homo sapiens

<400> 5

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Arg Val Leu His Val Asp Ser Arg Ser Tyr Tyr Gly Gly Asn Trp Ala
35 40 45

Ser Phe Ser Phe Ser Gly Leu Leu Ser Trp Leu Lys Glu Tyr Gln Glu
50 55 60

Asn Ser Asp Ile Val Ser Asp Ser Pro Val Trp Gln Asp Gln Ile Leu
65 70 75 80

Glu Asn Glu Glu Ala Ile Ala Leu Ser Arg Lys Asp Lys Thr Ile Gln
85 90 95

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

Glu Glu Ala Gly Ala Leu Gln Lys Asn His Ala Leu Val Thr Ser Ala
115 120 125

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

Ser Leu Ser Thr Met Ser Cys Glu Met Leu Thr Glu Gln Thr Pro Ser
145 150 155 160

Ser Asp Pro Glu Asn Ala Leu Glu Val Asn Gly Ala Glu Val Thr Gly
165 170 175

Glu Lys Glu Asn His Cys Asp Asp Lys Thr Cys Val Pro Ser Thr Ser
180 185 190

Ala Glu Asp Met Ser Glu Asn Val Pro Ile Ala Glu Asp Thr Thr Glu
195 200 205

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

Arg Arg Phe Asn Ile Asp Leu Val Ser Lys Leu Leu Tyr Ser Arg Gly
225 230 235 240

Leu Leu Ile Asp Leu Leu Ile Lys Ser Asn Val Ser Arg Tyr Ala Glu
245 250 255

Phe Lys Asn Ile Thr Arg Ile Leu Ala Phe Arg Glu Gly Arg Val Glu
260 265 270

Gln Val Pro Cys Ser Arg Ala Asp Val Phe Asn Ser Lys Gln Leu Thr
275 280 285

Met Val Glu Lys Arg Met Leu Met Lys Phe Leu Thr Phe Cys Met Glu
290 295 300

Tyr Glu Lys Tyr Pro Asp Glu Tyr Lys Gly Tyr Glu Glu Ile Thr Phe
305 310 315 320

Tyr Glu Tyr Leu Lys Thr Gln Lys Leu Thr Pro Asn Leu Gln Tyr Ile
325 330 335

Val Met His Ser Ile Ala Met Thr Ser Glu Thr Ala Ser Ser Thr Ile
340 345 350

Asp Gly Leu Lys Ala Thr Lys Asn Phe Leu His Cys Leu Gly Arg Tyr
355 360 365

Gly Asn Thr Pro Phe Leu Phe Pro Leu Tyr Gly Gln Gly Glu Leu Pro
370 375 380

Gln Cys Phe Cys Arg Met Cys Ala Val Phe Gly Gly Ile Tyr Cys Leu
385 390 395 400

Arg His Ser Val Gln Cys Leu Val Val Asp Lys Glu Ser Arg Lys Cys
405 410 415

Lys Ala Ile Ile Asp Gln Phe Gly Gln Arg Ile Ile Ser Glu His Phe
420 425 430

Leu Val Glu Asp Ser Tyr Phe Pro Glu Asn Met Cys Ser Arg Val Gln
435 440 445

Tyr Arg Gln Ile Ser Arg Ala Val Leu Ile Thr Asp Arg Ser Val Leu
450 455 460

Lys Thr Asp Ser Asp Gln Gln Ile Ser Ile Leu Thr Val Pro Ala Glu
465 470 475 480

Glu Pro Gly Thr Phe Ala Val Arg Val Ile Glu Leu Cys Ser Ser Thr
485 490 495

Met Thr Cys Met Lys Gly Thr Tyr Leu Val His Leu Thr Cys Thr Ser
500 505 510

Ser Lys Thr Ala Arg Glu Asp Leu Glu Ser Val Val Gln Lys Leu Phe
515 520 525

Val Pro Tyr Thr Glu Met Glu Ile Glu Asn Glu Gln Val Glu Lys Pro
530 535 540

Arg Ile Leu Trp Ala Leu Tyr Phe Asn Met Arg Asp Ser Ser Asp Ile
545 550 555 560

Ser Arg Ser Cys Tyr Asn Asp Leu Pro Ser Asn Val Tyr Val Cys Ser
565 570 575

Gly Pro Asp Cys Gly Leu Gly Asn Asp Asn Ala Val Lys Gln Ala Glu
580 585 590

Thr Leu Phe Gln Glu Ile Cys Pro Asn Glu Asp Phe Cys Pro Pro Pro
 595 600 605

Pro Asn Pro Glu Asp Ile Ile Leu Asp Gly Asp Ser Leu Gln Pro Glu
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 <211> 1962
 <212> DNA
 <213> Homo sapiens

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aatgaagatt tctgtcccc tccaccaaat cctgaagaca ttatccttga tggagacagt	1860
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 <212> DNA
 <213> Homo sapiens

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cctgaagaca ttatccttga tggagacagt ttacagccag aggcttcaga atccagtgcc	1920
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tcctctgaat aa	1992

<210> 8
 <211> 567
 <212> PRT
 <213> Rattus norvegicus

<400> 8

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		20					25						30		

Gln	Ala	Val	Phe	Gln	Lys	Arg	Gln	Ala	Gly	Glu	Leu	Asp	Glu	Ser	Val
	35						40					45			

Leu	Glu	Leu	Thr	Ser	Gln	Ile	Leu	Gly	Ala	Asn	Pro	Asp	Phe	Ala	Thr
50					55					60					

Leu	Trp	Asn	Cys	Arg	Arg	Glu	Val	Leu	Gln	His	Leu	Glu	Thr	Glu	Lys
65				70					75					80	

Ser	Pro	Glu	Glu	Ser	Ala	Ala	Leu	Val	Lys	Ala	Glu	Leu	Gly	Phe	Leu
				85					90					95	

Glu	Ser	Cys	Leu	Arg	Val	Asn	Pro	Lys	Ser	Tyr	Gly	Thr	Trp	His	His
			100					105					110		

Arg Cys Trp Leu Leu Ser Arg Leu Pro Glu Pro Asn Trp Ala Arg Glu

115

120

125

Leu Glu Leu Cys Ala Arg Phe Leu Glu Ala Asp Glu Arg Asn Phe His
 130 135 140

Cys Trp Asp Tyr Arg Arg Phe Val Ala Ala Gln Ala Ala Val Ala Pro
 145 150 155 160

Ala Glu Glu Leu Ala Phe Thr Asp Ser Leu Ile Thr Arg Asn Phe Ser
 165 170 175

Asn Tyr Ser Ser Trp His Tyr Arg Ser Cys Leu Leu Pro Gln Leu His
 180 185 190

Pro Gln Pro Asp Ser Gly Pro Gln Gly Arg Leu Pro Glu Asn Val Leu
 195 200 205

Leu Lys Glu Leu Glu Leu Val Gln Asn Ala Phe Phe Thr Asp Pro Asn
 210 215 220

Asp Gln Ser Ala Trp Phe Tyr His Arg Trp Leu Leu Gly Arg Ala Glu
 225 230 235 240

Pro His Asp Val Leu Cys Cys Val His Val Ser Arg Glu Glu Ala Cys
 245 250 255

Leu Ser Val Cys Phe Ser Arg Pro Leu Thr Val Gly Ser Arg Met Gly
 260 265 270

Thr Leu Leu Leu Met Val Asp Glu Ala Pro Leu Ser Val Glu Trp Arg
 275 280 285

Thr Pro Asp Gly Arg Asn Arg Pro Ser His Val Trp Leu Cys Asp Leu
 290 295 300

Pro Ala Ala Ser Leu Asn Asp Gln Leu Pro Gln His Thr Phe Arg Val
 305 310 315 320

Ile Trp Thr Gly Ser Asp Ser Gln Lys Glu Cys Val Leu Leu Lys Asp
325 330 335

Arg Pro Glu Cys Trp Cys Arg Asp Ser Ala Thr Asp Glu Gln Leu Phe
340 345 350

Arg Cys Glu Leu Ser Val Glu Lys Ser Thr Val Leu Gln Ser Glu Leu
355 360 365

Glu Ser Cys Lys Glu Leu Gln Glu Leu Glu Pro Glu Asn Lys Trp Cys
370 375 380

Leu Leu Thr Ile Ile Leu Leu Met Arg Ala Leu Asp Pro Leu Leu Tyr
385 390 395 400

Glu Lys Glu Thr Leu Gln Tyr Phe Ser Thr Leu Lys Ala Val Asp Pro
405 410 415

Met Arg Ala Ala Tyr Leu Asp Asp Leu Arg Ser Lys Phe Leu Leu Glu
420 425 430

Asn Ser Val Leu Lys Met Glu Tyr Ala Asp Val Arg Val Leu His Leu
435 440 445

Ala His Lys Asp Leu Thr Val Leu Cys His Leu Glu Gln Leu Leu Leu
450 455 460

Val Thr His Leu Asp Leu Ser His Asn Arg Leu Arg Ala Leu Pro Pro
465 470 475 480

Ala Leu Ala Ala Leu Arg Cys Leu Glu Val Leu Gln Ala Ser Asp Asn
485 490 495

Ala Leu Glu Asn Val Asp Gly Val Ala Asn Leu Pro Arg Leu Gln Glu
500 505 510

Leu Leu Leu Cys Asn Asn Arg Leu Gln Gln Ser Ala Ala Ile Gln Pro

515

520

525

Leu Val Ser Cys Pro Arg Leu Val Leu Leu Asn Leu Gln Gly Asn Ser
 530 535 540

Leu Cys Gln Glu Glu Gly Ile Gln Glu Arg Leu Ala Glu Met Leu Pro
 545 550 555 560

Ser Val Ser Ser Ile Leu Thr
 565

<210> 9

<211> 331

<212> PRT

<213> Rattus norvegicus

<400> 9

Met Gly Thr Gln Gln Lys Asp Val Thr Ile Lys Ser Asp Ala Pro Asp
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 35 40 45

Gly Val Tyr Trp Gly Leu Thr Val Met Asp Leu Met Gly Gln Leu His
 50 55 60

Arg Met Asn Lys Glu Glu Ile Leu Val Phe Ile Lys Ser Cys Gln His
 65 70 75 80

Glu Cys Gly Gly Val Ser Ala Ser Ile Gly His Asp Pro His Leu Leu
 85 90 95

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

Val Ile Asn Val Asp Lys Val Val Ala Tyr Val Gln Ser Leu Gln Lys
115 120 125

Glu Asp Gly Ser Phe Ala Gly Asp Ile Trp Gly Glu Ile Asp Thr Arg
130 135 140

Phe Ser Phe Cys Ala Val Ala Thr Leu Ala Leu Leu Gly Lys Leu Asp
145 150 155 160

Ala Ile Asn Val Glu Lys Ala Ile Glu Phe Val Leu Ser Cys Met Asn
165 170 175

Phe Asp Gly Gly Phe Gly Cys Arg Pro Gly Ser Glu Ser His Ala Gly
180 185 190

Gln Ile Tyr Cys Cys Thr Gly Phe Leu Ala Ile Thr Ser Gln Leu His
195 200 205

Gln Val Asn Ser Asp Leu Leu Gly Trp Trp Leu Cys Glu Arg Gln Leu
210 215 220

Pro Ser Gly Gly Leu Asn Gly Arg Pro Glu Lys Leu Pro Asp Val Cys
225 230 235 240

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

Trp Ile Asp Arg Glu Lys Leu Arg Ser Phe Ile Leu Ala Cys Gln Asp
260 265 270

Glu Glu Thr Gly Gly Phe Ala Asp Arg Pro Gly Asp Met Val Asp Pro
275 280 285

Phe His Thr Leu Phe Gly Ile Ala Gly Leu Ser Leu Leu Gly Glu Glu
290 295 300

Gln Ile Lys Pro Val Ser Pro Val Phe Cys Met Pro Glu Glu Val Leu
305 310 315 320

Gln Arg Val Asn Val Gln Pro Glu Leu Val Ser
325 330