

0239 WO 00 ORD sequence listing_ST25
SEQUENCE LISTING

<110> Crucell Holland B.V.

<120> Antibodies and antigen-binding fragments that specifically bind
to microtubule-associated protein tau

<130> 0239 WO 00 ORD

<160> 535

<170> PatentIn version 3.5

<210> 1

<211> 441

<212> PRT

<213> Homo sapiens

<400> 1

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Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
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Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
35 40 45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
50 55 60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65 70 75 80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
85 90 95

Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
100 105 110

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Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
 115 120 125

Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
 130 135 140

Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
 145 150 155 160

Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
 165 170 175

Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
 180 185 190

Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
 195 200 205

Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
 210 215 220

Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
 225 230 235 240

Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
 245 250 255

Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
 260 265 270

Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln
 275 280 285

Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly
 290 295 300

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Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser
305 310 315 320

Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
325 330 335

Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser
340 345 350

Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
355 360 365

Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala
370 375 380

Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val Ser
385 390 395 400

Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser
405 410 415

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

<400> 2

Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
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Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His

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25

30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
35 40 45

Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
50 55 60

Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65 70 75 80

Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
85 90 95

Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
100 105 110

Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
115 120 125

Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
130 135 140

Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
145 150 155 160

Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
165 170 175

Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
180 185 190

Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
195 200 205

Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys

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210

215

220

Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
225 230 235 240

Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
245 250 255

Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
260 265 270

Gly Lys Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr
275 280 285

Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly
290 295 300

Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln
305 310 315 320

Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly
325 330 335

Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys
340 345 350

Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val
355 360 365

Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly
370 375 380

Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu
385 390 395 400

Val Ser Ala Ser Leu Ala Lys Gln Gly Leu

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405

410

<210> 3
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 <212> PRT
 <213> Homo sapiens
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			20					25					30		
Gln	Asp	Gln	Glu	Gly	Asp	Thr	Asp	Ala	Gly	Leu	Lys	Glu	Ser	Pro	Leu
		35					40					45			
Gln	Thr	Pro	Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr	Ser
	50					55					60				
Asp	Ala	Lys	Ser	Thr	Pro	Thr	Ala	Glu	Ala	Glu	Glu	Ala	Gly	Ile	Gly
65					70					75				80	
Asp	Thr	Pro	Ser	Leu	Glu	Asp	Glu	Ala	Ala	Gly	His	Val	Thr	Gln	Ala
				85					90					95	
Arg	Met	Val	Ser	Lys	Ser	Lys	Asp	Gly	Thr	Gly	Ser	Asp	Asp	Lys	Lys
			100					105					110		
Ala	Lys	Gly	Ala	Asp	Gly	Lys	Thr	Lys	Ile	Ala	Thr	Pro	Arg	Gly	Ala
		115					120					125			
Ala	Pro	Pro	Gly	Gln	Lys	Gly	Gln	Ala	Asn	Ala	Thr	Arg	Ile	Pro	Ala
	130					135					140				
Lys	Thr	Pro	Pro	Ala	Pro	Lys	Thr	Pro	Pro	Ser	Ser	Gly	Glu	Pro	Pro
145					150					155				160	

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Lys	Ser	Gly	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser	Pro	Gly	Thr	165	170	175	
Pro	Gly	Ser	Arg	Ser	Arg	Thr	Pro	Ser	Leu	Pro	Thr	Pro	Pro	Thr	Arg	180	185	190	
Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro	Ser	195	200	205	
Ser	Ala	Lys	Ser	Arg	Leu	Gln	Thr	Ala	Pro	Val	Pro	Met	Pro	Asp	Leu	210	215	220	
Lys	Asn	Val	Lys	Ser	Lys	Ile	Gly	Ser	Thr	Glu	Asn	Leu	Lys	His	Gln	225	230	235	240
Pro	Gly	Gly	Gly	Lys	Val	Gln	Ile	Ile	Asn	Lys	Lys	Leu	Asp	Leu	Ser	245	250	255	
Asn	Val	Gln	Ser	Lys	Cys	Gly	Ser	Lys	Asp	Asn	Ile	Lys	His	Val	Pro	260	265	270	
Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp	Leu	Ser	Lys	275	280	285	
Val	Thr	Ser	Lys	Cys	Gly	Ser	Leu	Gly	Asn	Ile	His	His	Lys	Pro	Gly	290	295	300	
Gly	Gly	Gln	Val	Glu	Val	Lys	Ser	Glu	Lys	Leu	Asp	Phe	Lys	Asp	Arg	305	310	315	320
Val	Gln	Ser	Lys	Ile	Gly	Ser	Leu	Asp	Asn	Ile	Thr	His	Val	Pro	Gly	325	330	335	
Gly	Gly	Asn	Lys	Lys	Ile	Glu	Thr	His	Lys	Leu	Thr	Phe	Arg	Glu	Asn	340	345	350	

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Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro
355 360 365

Val Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser
370 375 380

Thr Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala
385 390 395 400

Asp Glu Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
405 410

<210> 4
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<212> PRT
<213> Homo sapiens

<400> 4

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

Pro Leu Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu
50 55 60

Thr Ser Asp Ala Lys Ser Thr Pro Thr Ala Glu Ala Glu Glu Ala Gly
65 70 75 80

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

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Gln Ala Arg Met Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp
100 105 110

Lys Lys Ala Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg
115 120 125

Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile
130 135 140

Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu
145 150 155 160

Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro
165 170 175

Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro
180 185 190

Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser
195 200 205

Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro
210 215 220

Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys
225 230 235 240

His Gln Pro Gly Gly Gly Lys Val Gln Ile Val Tyr Lys Pro Val Asp
245 250 255

Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His
260 265 270

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

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Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His
290 295 300

Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe
305 310 315 320

Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr
325 330 335

Lys Ser Pro Val Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn
340 345 350

Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala
355 360 365

Thr Leu Ala Asp Glu Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
370 375 380

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<212> PRT
<213> Homo sapiens

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Ala Gly Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr
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Met His Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Ala Glu
35 40 45

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

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His Val Thr Gln Ala Arg Met Val Ser Lys Ser Lys Asp Gly Thr Gly
65 70 75 80

Ser Asp Asp Lys Lys Ala Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala
85 90 95

Thr Pro Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala
100 105 110

Thr Arg Ile Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser
115 120 125

Ser Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro
130 135 140

Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro
145 150 155 160

Thr Pro Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro
165 170 175

Pro Lys Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala Pro Val
180 185 190

Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser Thr Glu
195 200 205

Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys
210 215 220

Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn
225 230 235 240

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
245 250 255

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Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
 260 265 270

His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
 275 280 285

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
 290 295 300

Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
 305 310 315 320

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile
 325 330 335

Val Tyr Lys Ser Pro Val Val Ser Gly Asp Thr Ser Pro Arg His Leu
 340 345 350

Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp Ser Pro Gln
 355 360 365

Leu Ala Thr Leu Ala Asp Glu Val Ser Ala Ser Leu Ala Lys Gln Gly
 370 375 380

Leu
 385

<210> 6
 <211> 352
 <212> PRT
 <213> Homo sapiens

<400> 6

Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
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Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His

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20

25

30

Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Ala Glu Glu Ala
35 40 45

Gly Ile Gly Asp Thr Pro Ser Leu Glu Asp Glu Ala Ala Gly His Val
50 55 60

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

Asp Lys Lys Ala Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro
85 90 95

Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg
100 105 110

Ile Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly
115 120 125

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser
130 135 140

Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro
145 150 155 160

Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys
165 170 175

Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met
180 185 190

Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu
195 200 205

Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Val Tyr Lys Pro Val

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210

215

220

Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His
225 230 235 240

His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp
245 250 255

Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr
260 265 270

His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr
275 280 285

Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val
290 295 300

Tyr Lys Ser Pro Val Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser
305 310 315 320

Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu
325 330 335

Ala Thr Leu Ala Asp Glu Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
340 345 350

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24

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<400> 9
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<400> 18
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<210> 19

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<211> 21
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 <400> 22
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 <400> 23
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aactcattgg gtttctgctg ctctgg 26

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<400> 27
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gtgctgtcct tgctgtcctg ctc 23

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<400> 29
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0239 W0 00 ORD sequence listing_ST25

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<210> 32
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<400> 34
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<400> 41
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<210> 42
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<400> 42
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<400> 43
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<400> 44
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<210> 45
<211> 45
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0239 W0 00 ORD sequence listing_ST25

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<210> 47
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<400> 47
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<400> 48
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 <212> DNA
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<400> 49
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<210> 50
 <211> 45
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<400> 50
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<210> 51

0239 WO 00 ORD sequence listing_ST25

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<400> 52
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<210> 53
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<400> 53
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<210> 54
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<400> 57
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ccggtctaga gttttccatg gcggaaattg tgttgacaca gtctccag 48

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0239 WO 00 ORD sequence listing_ST25

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<210> 65
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<213> synthetic

<400> 65
cgcaaagtgc acttacgttt gatctccagc ttgggtccctt ggc 43

0239 W0 00 ORD sequence listing_ST25

<210> 66
 <211> 43
 <212> DNA
 <213> synthetic

<400> 66
 cgcaaagtgc acttacgttt gatatccact ttgggtcccag ggc 43

<210> 67
 <211> 43
 <212> DNA
 <213> synthetic

<400> 67
 cgcaaagtgc acttacgttt gatctccacc ttgggtccctc cgc 43

<210> 68
 <211> 43
 <212> DNA
 <213> synthetic

<400> 68
 cgcaaagtgc acttacgttt aatctccagt cgtgtccctt ggc 43

<210> 69
 <211> 49
 <212> DNA
 <213> synthetic

<400> 69
 ccgggtctaga gttttccatg gcgaatttta tgctgactca gccccactc 49

<210> 70
 <211> 43
 <212> DNA
 <213> synthetic

<400> 70
 ccgggtctaga gttttccatg gcgtcctatg tgctgactca gcc 43

<210> 71
 <211> 43

0239 WO 00 ORD sequence listing_ST25

<212> DNA
 <213> synthetic

<400> 71
 ccggtctaga gttttccatg gcgcagtctg tgctgacgca gcc 43

<210> 72
 <211> 43
 <212> DNA
 <213> synthetic

<400> 72
 ccggtctaga gttttccatg gcgcagtctg tcgtgacgca gcc 43

<210> 73
 <211> 43
 <212> DNA
 <213> synthetic

<400> 73
 ccggtctaga gttttccatg gcgcagtctg ccctgactca gcc 43

<210> 74
 <211> 45
 <212> DNA
 <213> synthetic

<400> 74
 ccggtctaga gttttccatg gcgtcttctg agctgactca ggacc 45

<210> 75
 <211> 46
 <212> DNA
 <213> synthetic

<400> 75
 ccggtctaga gttttccatg gcgtcctatg agctgactca gccacc 46

<210> 76
 <211> 27
 <212> DNA
 <213> synthetic

0239 WO 00 ORD sequence listing_ST25

<220>

<221> y

<222> (13)..(13)

<223> c or t

<400> 76

ctcagaggag ggygggaaca gagtgac

27

<210> 77

<211> 1766

<212> DNA

<213> synthetic

<400> 77

aaacgtaagt gcactttgcg gccgctagga agaaactcaa aacatcaaga ttttaaatac	60
gcttcttggt ctccttgcta taattatctg ggataagcat gctgttttct gtctgtccct	120
aacatgccct gtgattatcc gcaaacaaca cacccaaggg cagaactttg ttacttaaac	180
accatcctgt ttgcttcttt cctcaggaac tgtggctgca ccatctgtct tcatcttccc	240
gccatctgat gagcagttga aatctggaac tgcctctggt gtgtgcctgc tgaataactt	300
ctatcccaga gaggccaaag tacagtggaa ggtggataac gccctccaat cgggtaactc	360
ccaggagagt gtcacagagc aggacagcaa ggacagcacc tacagcctca gcagcacctt	420
gacgctgagc aaagcagact acgagaaaca caaagtctac gcctgcgaag tcacccatca	480
gggcctgagc tcgcccgtca caaagagctt caacagggga gagtgtagt taacggatcg	540
atccgagctc ggtaccaagc ttaagtttaa accgctgac agcctcgact gtgccttcta	600
gttgccagcc atctgttggt tgcccctccc ccgtgccttc cttgaccctg gaaggcgcca	660
ctcccactgt cctttcctaa taaaatgagg aaattgcatc gcattgtctg agtaggtgtc	720
attctattct ggggggtggg gtggggcagg acagcaaggg ggaggattgg gaagacaata	780
gcaggcatgc tggggatgcg gtaatctgct tagggtagg cgttttgcgc tgcttcgcta	840
ggtggtcaat attggccatt agccatatta ttcatgggtt atatagcata aatcaatatt	900
ggctattggc cattgcatac gttgtatcca tatcataata tgtacattta tattggctca	960

0239 WO 00 ORD sequence listing_ST25

tgtccaacat taccgccatg ttgacattga ttattgacta gttattaata gtaatcaatt	1020
acgggggtcat tagttcatag cccatatatg gagttccgcg ttacataact tacggtaa	1080
ggcccgccctg gctgaccgcc caacgacccc cgccattga cgtcaataat gacgtatgtt	1140
cccatagtaa cgccaatagg gactttccat tgacgtcaat gggaggagta tttacggtaa	1200
actgcccact tggcagtaca tcaagtgtat catatgcca gtacgcccc tattgacgtc	1260
aatgacggta aatggccgc ctggcattat gcccagtaca tgaccttatg ggactttcct	1320
acttggcagt acatctacgt attagtcac gctattacca tggatgatgcg gttttggcag	1380
tacatcaatg ggcgtggata gcggtttgac tcacggggat ttccaagtct ccacccatt	1440
gacgtcaatg ggagtttggt ttggcaccaa aatcaacggg actttccaaa atgtcgtaac	1500
aactccgccc cattgacgca aatgggcggg aggcgtgtac ggtgggagggt ctatataagc	1560
agagctcgtt tagtgaaccg tcagatcgcc tggagacgcc atccacgctg ttttgacctc	1620
catagaagac accgggaccg atccagcctc cgcgccggg aacgggtgcat tggaagcttg	1680
gtaccgagct cggatccgcc accatggcct gcccgggatt tctgtgggcc ctggatcatca	1740
gcacctgtct ggaattcagc atggcc	1766

<210> 78
 <211> 23
 <212> DNA
 <213> synthetic

<400> 78	
ggccatgctg aattccagac agg	23

<210> 79
 <211> 29
 <212> DNA
 <213> synthetic

<400> 79	
aaacgtaagt gcactttgcg gccgctagg	29

<210> 80

0239 W0 00 ORD sequence listing_ST25

<211> 25
<212> DNA
<213> synthetic

<400> 80
actctgttcc crccctcctc tgagg 25

<210> 81
<211> 23
<212> DNA
<213> synthetic

<400> 81
ccggtctaga gttttccatg gcg 23

<210> 82
<211> 19
<212> DNA
<213> synthetic

<400> 82
tcgggcctcg agactcacc 19

<210> 83
<211> 330
<212> PRT
<213> Homo sapiens

<400> 83

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

0239 W0 00 ORD sequence listing_ST25

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

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

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195 200 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225 230 235 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
245 250 255

0239 WO 00 ORD sequence listing_ST25

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 84
<211> 107
<212> PRT
<213> Homo sapiens

<400> 84

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

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
20 25 30

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

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

0239 W0 00 ORD sequence listing_ST25

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 85
<211> 18
<212> DNA
<213> synthetic

<400> 85
catgtcaccg gggtgtgg 18

<210> 86
<211> 21
<212> DNA
<213> synthetic

<400> 86
tcacagggga tgtagggac a 21

<210> 87
<211> 117
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 87

Gln Val Gln Leu Val 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 Ser Tyr
20 25 30

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

0239 W0 00 ORD sequence listing_ST25

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

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

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

Thr Arg Gly Arg Ser Tyr Gly Phe Phe Asp Tyr Trp Gly Gln Gly Ala
100 105 110

Leu Val Thr Val Ser
115

<210> 88

<211> 108

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 88

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

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

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

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

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

0239 W0 00 ORD sequence listing_ST25

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 89
 <211> 354
 <212> DNA
 <213> artificial

<220>
 <223> Combination of PCR-generated and human sequence

<400> 89
 cagggtccagc tgggtggagtc cggggggaggc ttagttcagc ctgggggggtc cctgagactc 60
 tcctgtgcag cgtctggatt caccttcagc agctactgga tgcactgggt ccgccaagct 120
 ccagggaagg ggctggtgtg ggtctcccg attaatagtg atgggagtga cacaaactac 180
 gcggactccg tgaagggccg attcaccttc tccagagaca acgccaagaa cacattgtat 240
 ctgcagatga ccagtctgcg agccgaggac acggctatat attactgtac aagggggcgc 300
 agttatggtt tctttgacta ctggggccag ggagccctgg tcaccgtctc ctca 354

<210> 90
 <211> 324
 <212> DNA
 <213> artificial

<220>
 <223> Combination of PCR-generated and human sequence

<400> 90
 gacatcgtga tgaccagtc tccagacacc ctgtctttgt ctccagggga gagagccacc 60
 ctctcctgca gggccagtca gattattagc agcaactact tagcctggta ccaacaacaa 120
 cctggccagg ctcccaggct cctcatctat ggtgcatcca gcagggccac aggcattcca 180
 gacaggttca gtggcagtgg gtctgcgaca gatttactc tcaccatcag cagactggag 240

0239 WO 00 ORD sequence listing_ST25

cctgaagatt ttgcagtgtg ttactgtcag cagtatggta cctcacctcg gacgttcggc 300
caggggacca agctggagat caaa 324

<210> 91
<211> 124
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 91

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

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

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

Ala Val Ile Trp Phe Asp Gly Asn Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Arg Asp Trp Trp Glu Ala Gly Cys Arg Pro Cys Tyr Phe Phe Asp
100 105 110

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

0239 WO 00 ORD sequence listing_ST25

<210> 92

<211> 113

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 92

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

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

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

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

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

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

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

Lys

<210> 93

<211> 372

<212> DNA

<213> artificial

<220>

0239 WO 00 ORD sequence listing_ST25

<223> Combination of PCR-generated and human sequence

<400> 93

caggtgcagc tgggtggagtc gaggggaggc gtgggtccagc ctgggacgtc cctgagactc	60
tcctgtaaag cgtctggatt caccttcagc acttatggca tgcactgggt ccgccaggct	120
ccaggcaagg cgctggagtg ggtggcagtt atatggtttg atggaaataa caaatattat	180
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacggtgtat	240
ctgcaaatga acagcctgag aggcgaggac acggctgttt attactgtgc gagagattgg	300
tgggaagccg ggtgccggcc ctgttatttc tttgactact ggggccaggg aagcctggtc	360
accgtctcct ca	372

<210> 94

<211> 339

<212> DNA

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 94

gaaacgacac tcacgcagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc	60
atcaactgca agtccagcca gagtgtttta tacagctcca acaataagaa ctacttagct	120
tgggtaccagc agaaaccagg acagcctcct aaggtgctca ttactgggc ttctaccg	180
gaatccgggg tccctgaccg attcagtggc agcgggtctg ggaccgattt cactctcacc	240
atcagcagcc tgcaggctga agatgtggca gtttattact gtcagcaata ttatagtcct	300
ccgctcactt tcggcggagg gaccaagctg gagatcaaa	339

<210> 95

<211> 127

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

0239 WO 00 ORD sequence listing_ST25

<400> 95

Glu Val Gln Leu Val Gln 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 Asp Tyr
20 25 30

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

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

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

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

Ala Lys Asp Ala His Tyr Tyr Asp Arg Asn Arg Asn Asn Tyr Tyr Tyr
100 105 110

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

<210> 96

<211> 107

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 96

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

0239 W0 00 ORD sequence listing_ST25

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Gly Ala Asn
20 25 30

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

Tyr Ser Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro Arg
85 90 95

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

<210> 97

<211> 381

<212> DNA

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 97

gaggtgcagc tgggtgcagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggatt caccttcagt gactattgga tgagctgggt ccgccaggct 120

ccagggaagg ggctggagtg ggtggccaac ataaatcaag atggaagtgc tgcatactat 180

gtggactctg tgagggggccg attcaccatc tccagagaca gcgccgagaa ctactgaat 240

ctgcaaatga acagcctgag agccgaggac acggctgtgt attactgtgc gaaagatgca 300

cattactacg atcgtaatcg taataattat tactactact ttgacttctg gggccaggga 360

accctgggtca ccgtctcctc a 381

0239 WO 00 ORD sequence listing_ST25

<210> 98
 <211> 321
 <212> DNA
 <213> artificial

<220>
 <223> Combination of PCR-generated and human sequence

<400> 98
 gaaatagtga tgacgcagtc tccggccacc ctgtctgtgt ctccagggga aagagccacc 60
 ctctcctgca gggccagtca gagggttggc gccaaacttag cctggtacca gcagaaacct 120
 gggcaggctc ccaggctcct catctattct gcatccacca gggccactgg tgtcccagcc 180
 aggttcagtg gcagtgggtc tgggacagag ttactctca ccatcagcag cctgcagtct 240
 gaagattttg cagtttatta ctgtcagcag tataataact ggcctcggac gttcggccaa 300
 gggaccaagg tggaaatcaa a 321

<210> 99
 <211> 127
 <212> PRT
 <213> artificial

<220>
 <223> Combination of PCR-generated and human sequence

<400> 99

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 20 25 30

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

Trp Ile Gly Arg Met Ser Ser Ser Gly Ser Thr Asn Tyr Asn Pro Ser
 50 55 60

0239 WO 00 ORD sequence listing_ST25

Leu Lys Ser Arg Val Thr Met Ser Glu Asp Thr Ser Lys Asn Gln Phe
65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Glu Ser Gly Ser Ser Trp Gln Asn His Tyr Tyr Tyr Tyr
100 105 110

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

<210> 100

<211> 113

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 100

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

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

Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Ser Gly Gln
35 40 45

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

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

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

0239 WO 00 ORD sequence listing_ST25

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

Lys

<210> 101
 <211> 381
 <212> DNA
 <213> artificial

<220>
 <223> Combination of PCR-generated and human sequence

<400> 101
 cagggtgcagc tgttggagtc gggcccagga ctggtgaacc cttcacagac cctgtccctc 60
 acctgcactg tctctgggtg ctccatcagc agtggtaatt actactggag ctggatccgg 120
 cagcccgccg ggaagggact ggagtggatt gggcgtatgt ctagtagtgg gagcaccaac 180
 tacaaccctt ccctcaagag tcgagtcacc atgtcagaag acacgtccaa gaaccagttc 240
 tccctgaagt tgagctctgt gaccgccgca gacacggccg tgtattactg tgccagagaa 300
 tcgggtagca gctggcaaaa tcactactac tactacggta tggacgtctg gggccaaggg 360
 accacgggtca ccgtctcctc a 381

<210> 102
 <211> 339
 <212> DNA
 <213> artificial

<220>
 <223> Combination of PCR-generated and human sequence

<400> 102
 gaaatttgtt tgacacagtc tccagactcc ctggctgtgt ctctgggcga gagggccaac 60
 attaatgtga agtccagcca gagggtttta tacagctcca acaataagaa ctacttagct 120
 tgggtaccagc agaaatcagg acagcctcct aagctgctca ttactgggc atctaccg 180

0239 WO 00 ORD sequence listing_ST25

gaatccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc 240
atcagcagcc tgcaggctga agatgtggca gtttattact gtcagcaata ttatagtact 300
cctctcactt tcggcggagg gaccaaagtg gatatcaaa 339

<210> 103
<211> 123
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 103

Gln Val Gln Leu Val 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 Arg Asn Tyr
20 25 30

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

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

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

Gln Val Asn Ser Leu Arg Ala Asp Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Lys Glu Ser Gly Arg Trp Gly Gly Gly Thr Leu Tyr Gly Ala His Tyr
100 105 110

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

0239 WO 00 ORD sequence listing_ST25

<210> 104
 <211> 113
 <212> PRT
 <213> artificial

<220>
 <223> Combination of PCR-generated and human sequence

<400> 104

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

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

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

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

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

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

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

Lys

<210> 105
 <211> 369
 <212> DNA
 <213> artificial

0239 WO 00 ORD sequence listing_ST25

<220>

<223> Combination of PCR-generated and human sequence

<400> 105

caggtagcagc	tggtggagtc	tgggggaggc	ttggtacagc	ctgggggggc	cctgagactc	60
tcctgtgcag	cctctggatt	cacctttagg	aactatgcca	tgagttgggt	ccgccaggct	120
ccagggaagg	ggctggagtg	ggtctcaggc	attagtagtg	acggtaatac	attctacgca	180
gactccgtga	agggccggtt	caccgtctcc	agagacaatt	ccaagaacac	gttgtatctg	240
caagtgaaca	gtctgagagc	cgacgacacg	gccgtatatt	actgtgcgaa	agagagtggc	300
cgttgggggtg	gtggaacctt	atacggggcg	cactactggg	gccagggaac	cccggtcacc	360
gtctcctca						369

<210> 106

<211> 339

<212> DNA

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 106

gacatccaga	tgacccagtc	tccagactcc	ctggctgtgt	ctctgggcga	gagggccacc	60
atcaactgca	agtccagcca	gagtttggtta	tacaactcca	ataataagaa	ctacttaact	120
tggtaccagc	aaaaaccagg	acagcctcct	aagttgctca	tttactgggc	atctaccggg	180
gaatccgggg	tccctgaccg	attcagtggc	agcgggtctg	ggacagattt	cactctcacc	240
atcagcagcc	tgcaggctga	agatgtggca	gtttattact	gtcagcaata	ttatagtagt	300
cctctcactt	tcggcggagg	gaccaagggtg	gagatcaaa			339

<210> 107

<211> 121

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 107

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

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

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

Gly Arg Ile Ser Pro Asn Ser Gly Gly Thr Lys Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Met Ser Met Asn Thr Ala Tyr
65 70 75 80

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

Val Arg Gly His Cys Asp Gly Thr Thr Cys Ser Arg Ala Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 108

<211> 112

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 108

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

0239 W0 00 ORD sequence listing_ST25

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Arg
20 25 30

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

Pro Gln Val Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
50 55 60

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

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

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

<210> 109

<211> 363

<212> DNA

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 109

caggtgcagc tgggtgcagtc tggggctgag gtgaagaagc ctggggcccc agtgaaggtc 60

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cctggacaag ggcctgagtg gataggacgg atcagcccta acagcgggtgg cacaaagtat 180

gcacagaagt ttcaaggcag ggtcaccatg accagggaca tgtccatgaa cacagcctac 240

atggagctga gcgggctgag atctgacgac acggccgtgt attatttgtt aagaggacat 300

tgtgatggta ccacttgctc tcgtgcctac tggggccagg gaaccctggt caccgtctcc 360

tca 363

0239 WO 00 ORD sequence listing_ST25

<210> 110
 <211> 336
 <212> DNA
 <213> artificial

<220>
 <223> Combination of PCR-generated and human sequence

<400> 110
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 tacctgcaga ggccagggca gtctccacag gtcctgatct atttgggttc taatcgggcc 180
 tccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagattttac actgaaaatc 240
 agcagagtgg aggctgagga tgttgggctt tattactgca tgcaaactct acaaaccccc 300
 tggacattcg gccaaggac caaggtggaa atcaaa 336

<210> 111
 <211> 120
 <212> PRT
 <213> artificial

<220>
 <223> Combination of PCR-generated and human sequence

<400> 111

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

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

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

Gly Trp Val Asn Pro Arg Ser Gly Gly Thr Ser Tyr Pro Pro Lys Phe
 50 55 60

0239 W0 00 ORD sequence listing_ST25

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Asn Thr Ala Tyr
65 70 75 80

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

Ala Val Gly Arg Ile Pro Asp Val Thr Ala Phe Asp Ile Trp Gly Gln
100 105 110

Gly Thr Pro Val Thr Val Ser Ser
115 120

<210> 112
<211> 113
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 112

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

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

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

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

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

0239 WO 00 ORD sequence listing_ST25

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

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

Lys

<210> 113
<211> 360
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 113
caggtccagc ttgtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtc 60
tcctgtacgg cctctggata cactttcacc ggctattatt tacactgggt gcgacaggcc 120
cctggacaag gacttgagtg gatgggggtgg gtcaacccta ggagtgggtg cacaagctat 180
ccaccgaagt ttcagggcag ggtcaccatg accagggaca cgtccatcaa cacagcctac 240
atggaccta cctggctgac atctgacgac acggccgtct attattgtgc ggtcggaaga 300
atacctgatg taactgcttt cgatatctgg ggccagggga caccggtcac cgtctcctca 360

<210> 114
<211> 339
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 114
gacatccaga tgaccagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc 60
atcaactgca agtccagcga gagtctttta tacgactcca acaataagaa ctacttagct 120
tggtaccagc agaaaccagg acagcctcct aagttgctca tttattgggc atctaccg 180

0239 WO 00 ORD sequence listing_ST25

gaatccgggg tccctgaccg attcagtggc agcgggtctg agacagattt cactctcacc 240
atcagcagcc tgcaggctga agatgtggca gtttatcact gtcaacaata tttcagtact 300
ccttggacgt tcggccaggg gaccaagctg gagatcaaa 339

<210> 115
<211> 122
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 115

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

Ser Leu Lys Ile Ser Cys Lys Thr Ser Gly Tyr Ile Phe Ser Asp Tyr
20 25 30

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

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

Gln Gly His Val Thr Met Ser Thr Asp Ser Ser Leu Thr Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Gly Ile Tyr Tyr Cys
85 90 95

Ala Arg Leu Asp Ala Arg Val Asp Ala Gly Trp Gln Leu Asp Ser Trp
100 105 110

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

0239 WO 00 ORD sequence listing_ST25

<210> 116
 <211> 113
 <212> PRT
 <213> artificial

<220>
 <223> Combination of PCR-generated and human sequence

<400> 116

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

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Phe Ser Arg
 20 25 30

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

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

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

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

Tyr Phe Asn Thr Pro His Asn Phe Gly Gln Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 117
 <211> 366
 <212> DNA
 <213> artificial

0239 WO 00 ORD sequence listing_ST25

<220>

<223> Combination of PCR-generated and human sequence

<400> 117

caggttcagc tgggtggagtc tggaccggag atgagaaagc ccgggggagtc tctgaaaatt	60
tcctgcaaga cttctggcta catatntagc gactactgga ctgcctgggt gcgccagctg	120
cccggaagg gccttcagtg gatgggaatc atctattctg gtgactctga taccagatat	180
catccgtccg tccaaggcca cgtcaccatg tcaaccgaca gttccctcac caccgcctac	240
ctgcagtgga gcagcctgaa ggccctggac accggcatat attactgtgc gcgccttgat	300
gcaagagttg atgctggatg gcaattagat tcgtggggcc aggggaccct ggtcaccgtc	360
tcttca	366

<210> 118

<211> 339

<212> DNA

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 118

gacatccagt tgacccagtc tccagattcc ctggctgtgt ctctgggcga gcgggccacc	60
atcaactgca agtccagcca gagtgttttc tccagggaca acaataaaaa ctacctagct	120
tgggtaccagc acaaatcagg gcagcctcct aagttgctct ttttctgggc gtccagtcgt	180
gaatctgggg tctcagaccg attcagcggc agcgggtctg ggacagattt cactctcacc	240
atcgacaacc tgcaggctga agatgtggca ctttattact gtcaacatta ttttaatact	300
ccccacaatt ttggccaggg gaccaagctg gagatcaaa	339

<210> 119

<211> 121

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 119

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

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

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Pro Phe
50 55 60

Gln Gly Gln Val Thr Ile Thr Ala Asp Arg Ser Ile Thr Thr Ala Tyr
65 70 75 80

Leu Glu Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Ala Arg Val Gly Arg Pro Ser Lys Gly Gly Trp Phe Asp Pro Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 120

<211> 113

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 120

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

0239 W0 00 ORD sequence listing_ST25

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

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

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

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

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

Tyr Tyr Asn Ser Pro Tyr Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile
100 105 110

Lys

<210> 121
<211> 363
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 121
caggtgcagc tacagcagtc aggagcagaa gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtgagg cctctggata cagcttcacc aattactgga tcggctgggt gcgccagatg 120
cccggtaaag gcctggagtg gatgggaatc atctatcctg gtgactctga caccagatac 180
agtccgccct tccaaggcca ggtcaccatc acagccgaca ggtccatcac caccgcctac 240
ttggagtgga gcagtctgaa ggcctcggac accgccatgt attactgtgc aagagttggg 300

0239 WO 00 ORD sequence listing_ST25

agaccttcta aaggaggctg gttcgacccc tggggccagg gaaccctggc caccgtctct 360
tca 363

<210> 122
<211> 339
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 122
gacatccaga tgacccagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc 60
atcaactgtg agtccagcca gactctttta tacagttcca acgaaaagaa ctacctagct 120
tggtaccagc agaaaccagg acagcctcct aagttgctca tttcctgggc ttctaccccg 180
gaatccgggg tccctgaccg attcagtggc agtgggtctg ggacaagttt cactctcacc 240
atcagcagcc tgcaggctga ggatgtggca gtttattact gtcagcaata ttataacagt 300
ccatacactt ttggccaagg gacacgactg gagattaaa 339

<210> 123
<211> 126
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 123

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

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

Tyr Met Ser Trp Ile Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

0239 WO 00 ORD sequence listing_ST25

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

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

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

Ala Arg Val Gln Thr Thr Met Ile Glu Gly Lys Thr Lys Leu Asn Tyr
100 105 110

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

<210> 124
<211> 113
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 124

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

Glu Arg Val Thr Ile Thr Cys Glu Ser Ser His Ser Leu Leu Tyr Arg
20 25 30

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

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

0239 W0 00 ORD sequence listing_ST25

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

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

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

Lys

<210> 125
<211> 378
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 125
gaggtgcagc tggttgagtc tgggggaggc ttggtcaagc ctggagggtc cctgagactc 60
tcctgtgtcg cctctggaat caccttcagt gactcctaca tgagctggat ccgccagact 120
ccagggaagg ggctagagtg gctttcatac attagtcgta gtagttctca cacaaattac 180
gcagactctg tgaagggccg attcaccatc tccagagaca acgccaagaa ttactatat 240
ctccaaatga atagcctgag aggcgaggac acggctgtgt attactgtgc gagagtccag 300
acaactatga tagaaggga aacgaaactt aactactttg actactgggg ccagggaacc 360
caggtcaccg tctcctca 378

<210> 126
<211> 339
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

0239 WO 00 ORD sequence listing_ST25

<400> 126
gacatccaga tgacccagtc tccagactcc ctggctgtgt ctctgggcga gagggtcacc 60
atcacctgcg agtccagcca cagtctttta tacagggtcca acaataggaa ctacttagct 120
tggtaccagc aaaaaccaag acagcctcct aagttgctca tttactgggc atctaccgg 180
gagtccgggg tcccagaccg attcagcggc agcgggtctg agacagattt cactctcacc 240
atcagcagcc tgcgggctga agatgtggcg gtatattact gtcaacaatt ttatactact 300
ccttacactt ttggccaagg gaccaaggtg gagatcaaa 339

<210> 127
<211> 126
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 127

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

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

Tyr Met Ser Trp Ile Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

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

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

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

0239 WO 00 ORD sequence listing_ST25

Ala Arg Val Gln Thr Thr Met Ile Glu Gly Lys Thr Lys Leu Asn Tyr
100 105 110

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

<210> 128
<211> 113
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 128

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

Glu Arg Val Thr Ile Ser Cys Glu Ser Ser His Ser Leu Leu Tyr Arg
20 25 30

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

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

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

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

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

Lys

0239 WO 00 ORD sequence listing_ST25

<210> 129
<211> 378
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 129
gagggtgcagc tgggtgcagtc tgggggaggc ttgggtcaagc ctggagggtc cctgagactc 60
tcctgtgtcg cctctggaat caccttcagt gactcctaca tgagctggat ccgccagact 120
ccagggaagg ggctagagtg gctttcatac attagtcgta gtagttctca cacaaattac 180
gcagactctg tgaagggccg attcaccatc tccagagaca acgccaagaa ttcactatat 240
ctccaaatga atagcctgag aggcgaggac acggctgtgt attactgtgc gagagtccag 300
acaactatga tagaaggga aacgaaactt aactactttg actactgggg ccagggaacc 360
ctggtcaccg tctcctca 378

<210> 130
<211> 339
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 130
gccatccagt tgaccagtc tccagactcc ctggctgtgt ctctgggcga gagggtcacc 60
atcagctgcg agtccagcca cagtctttta tacagggtcca acaataagaa ctacttagct 120
tggtaccagc agaaaccaag acagcctcct aagttgctca tttactgggc atctaccgg 180
gagtccgggg tcccagaccg attcagcggc agcgggtctg agacagattt cactctcacc 240
atcagcagcc tgcgggctga agatgtggca gtgtattact gtcaacaatt ttatactact 300
ccttacactt ttggccaggg gaccaagctg gagatcaaa 339

0239 WO 00 ORD sequence listing_ST25

<210> 131

<211> 122

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 131

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

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr Lys Ala Trp Met
20 25 30

Ser Trp Val Arg Gln Thr Pro Gly Arg Gly Leu Glu Trp Leu Gly Arg
35 40 45

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

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

Leu Gln Met Thr Gly Leu Arg Thr Glu Asp Thr Gly Val Tyr Phe Cys
85 90 95

Thr Thr Leu Ile His Cys Asp Leu Ser Ala Cys Leu Pro His Phe Trp
100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 132

<211> 113

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 132

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

Glu Arg Val Thr Ile Ser Cys Glu Ser Ser His Ser Leu Leu Tyr Arg
20 25 30

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

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

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

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

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

Lys

<210> 133

<211> 378

<212> DNA

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 133

gaggtgcagc tgggtgcagtc tgggggaggc ttggtcaagc ctggagggtc cctgagactc 60

tcctgtgtcg cctctggaat caccttcagt gactcctaca tgagctggat ccgccagact 120

0239 W0 00 ORD sequence listing_ST25

ccagggaagg	ggctagagt	gctttcatac	attagtcgta	gtagtcttca	cacaaattac	180
gcagactctg	tgaagggccg	attcaccatc	tccagagaca	acgccaagaa	ttcactatat	240
ctccaaatga	atagcctgag	aggcgaggac	acggctgtgt	attactgtgc	gagagtccag	300
acaactatga	tagaaggga	aacgaaactt	aactactttg	actactgggg	ccagggaacc	360
ctggtcaccg	tctcctca					378

<210>	134
<211>	339
<212>	DNA
<213>	artificial

<220>
<223> Combination of PCR-generated and human sequence

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<400>    134  
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atcagctgcg agtccagcca cagtctttta tacagggtcca acaataagaa ctacttagct     120  
  
tggtaccagc agaaaccaag acagcctcct aagttgctca tt tactgggc atctacctgg     180  
  
gagtccgggg tcccagaccg attcagcggc agcgggtctg agacagattt cactctcacc     240  
  
atcagcagcc tgcgggctga agatgtggca gtgtattact gtcaacaatt ttatactact     300  
  
ccttacactt ttggccaggg gaccaagctg gagatcaaaa                               339
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<210>	135
<211>	124
<212>	PRT
<213>	artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 135

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

0239 W0 00 ORD sequence listing_ST25

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Ser Asn Tyr
20 25 30

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Thr Tyr Ser Pro Ser Phe
50 55 60

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

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Ser Ala Met Tyr Tyr Cys
85 90 95

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

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

<210> 136

<211> 113

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 136

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

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

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

0239 WO 00 ORD sequence listing_ST25

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

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

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

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

Lys

<210> 137
<211> 372
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 137
caggtgcagc tgggtgcagtc tggaggagag gtgaaaaagc cgggggagtc tctgaagatc 60
tcctgtaagg gttctgggta ctcttttagt aactactgga tcgcctgggt gcgccagatg 120
cccgggaaag gcctggagtg catgggaatc atctatcctg gtgactctga taccacatac 180
agccccgtcct tccaaggcca gggtcaccatt tctgccgaca agtccgtcag taccacctac 240
ctacaatgga gcagcctgaa ggcctcggac agcgccatgt attattgtgc gaggctaccc 300
cgtacagatg gcgacaattc catcggctac tttgaatatt ggggccaggg aaccatggtc 360
accgtctctt ca 372

<210> 138
<211> 345

0239 WO 00 ORD sequence listing_ST25

<212> DNA

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 138

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gaaattgtgt tgacacagtc tccagcctcc ctggctgtgt ctctgggcga gagggccacc      60
atcaactgca agtccagcca gagtgtttta tacagctcca acagtgagaa ctacttagct      120
tggtatcagc agaaaccagg acagcctccc aagttgctca ttactgggc gtctaccgg      180
gaatccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc      240
atcagcagcc tgcaggctga agatgtggca gtttattact gtcagcaata ttatagtact      300
ccattcactt tcggccaagg gacacgactg gagattaaac gtaag                        345

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<210> 139

<211> 118

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 139

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Glu Val Gln Leu Val 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 Ser Tyr
          20          25          30

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

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

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

```

0239 WO 00 ORD sequence listing_ST25

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

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

Thr Leu Val Thr Val Ser
115

<210> 140

<211> 108

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 140

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

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

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

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

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro
85 90 95

0239 WO 00 ORD sequence listing_ST25

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

<210> 141
<211> 357
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 141
gaggtgcagc tgggtggagtc tgggggaggc ttggtacagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggatt caccttcagt agttatagca tgaactgggt ccgccaggct 120
ccagggaagg ggctggagtg ggtttcatat attagtagta gtactactac catatactac 180
gcagactctg tgaagggccg attcaccatc tccagggaca atgtcaagaa ctctctgtat 240
ctgcaaatgc acagcctgag agccgaggac acggctgtgt attactgtgt cccggccccc 300
cggttgggtg ggagctacac ttactggggc cagggaaccc tggtcaccgt ctcctca 357

<210> 142
<211> 324
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 142
gacatccaga tgaccagtc tccaggcacc ctgtctttgt ctccagggga aagagccacc 60
ctctcctgca gggccagtca gagtgtagc agcagctact tagcctggta ccagcagaaa 120
cctggccagg ctcccaggct cctcatctat ggtgcatcca gcagggccac tggcatccca 180
gacaggttca gtggcagtggt gtctgggaca gacttcactc tcaccatcag cagactggag 240
cctgaagatt ttgcagtgtt ttactgtcag cagtatggca cctcaccgct cactttcggc 300
ggagggacca aggtggaaat caaa 324

0239 WO 00 ORD sequence listing_ST25

<210> 143

<211> 119

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 143

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

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

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

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

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

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

Tyr Cys Thr Thr Gly Leu Gly Gly Gly Thr Tyr Gly Trp Gly Arg Gly
100 105 110

Thr Arg Val Thr Val Ser Ser
115

<210> 144

<211> 108

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 144

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

Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Ala Gly Leu Arg Asn Asn
20 25 30

Asp Gly Asp Ile Leu Leu Ser Trp Phe His Gln Arg Pro Gly Gln Ser
35 40 45

Pro Arg Arg Leu Phe Tyr Arg Val Ser Arg Arg Asp Ser Gly Val Pro
50 55 60

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

Asn Ser Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Arg Gly
85 90 95

Pro Tyr Trp Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

<210> 145

<211> 357

<212> DNA

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 145

gaggtgcagc tgggtggagtc tgggggagac ttggtaaagc ctgggggggtc ccttagactc 60

tcctgtgcag cctctggatt cgttttcact gacgcctgga tgagctgggt ccgccagagt 120

cccgggaagg ggccggagtg gcttggccgt atcaaaagta aaaatgtcgg tgagacaaca 180

gactacgctg aacacgtgag aggcagattt accatcgcaa gagatgattc caaccgcact 240

0239 WO 00 ORD sequence listing_ST25

ctatatctac aaatgagcaa cctgaaaatc gacgacacag ccgtctatta ttgtaccact 300
ggactgggag gagggaccta cggatggggc cggggaaccc gggtcaccgt ctcttca 357

<210> 146
<211> 324
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 146
gaaatttgtt tgacacagtc tccactctcc ctgcccgcca cccttggaca gccggcctcc 60
atctcctgca ggctcgagtgc aggctccga aacaacgatg gtgacatcct cttgagttgg 120
tttcatcagc ggccaggcca gtctccgagg cgcctatitt atagagtttc taggcgtgac 180
tctggagtcc cagacagatt caacggcagt gggtcagcca ctgatttcac actgagaatc 240
aattctgtgg aggctgaaga tgttggcatt tactactgca tgcgaggacc atattggggc 300
caagggacac gactggagat taaa 324

<210> 147
<211> 119
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 147

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

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

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

0239 WO 00 ORD sequence listing_ST25

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

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

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

Ala Lys Pro Arg Ile Gly Ala Arg Val Phe Asp Val Trp Gly Gln Gly
100 105 110

Thr Met Val Thr Val Ser Ser
115

<210> 148
<211> 113
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 148

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

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

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

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

0239 WO 00 ORD sequence listing_ST25

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

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

Tyr Phe Thr Thr Ala Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 149
<211> 357
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 149
cagggtacagc tgggtggagtc tggggggaggc ttggtacagc ctggagagtc cctgagactc 60
tcctgtgtag cctctggatt caacttcagt atttatgaga tgaattgggt ccgccaggct 120
ccagggaagg ggctggagtg ggtttcatatc attaccaatc gaggtagtag catatactac 180
gcagactctg tgaagggccg attcaccatc tccagggaca acgcccagaa ctactgtat 240
ctgcaaatga acagcctgag agccgaagac acggctgttt attactgtgc gaaaccccgt 300
ataggagctc gtgtatttga tgtctggggc caagggacaa tggtcaccgt ctctca 357

<210> 150
<211> 339
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 150
gacatccagt tgacccagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc 60

0239 W0 00 ORD sequence listing_ST25

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atcaactgca agtccagcca gactctttta tacaagtcca acaatgagaa ctacttagct      120
tggtaccagc agaaaccagg acagcctcca aagctgctca tttactgggc atctactcgg      180
gaatccggggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc      240
atcagcagcc tgcaggctga ggatgtggca gtttactact gtcagcaata ttttactact      300
gcgctcactt tcggcggagg gaccaagggtg gagatcaaa                          339

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<210> 151

<211> 121

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 151

```

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

```

```

Ser Leu Lys Ile Ser Cys Glu Ala Ser Gly Tyr Met Phe Leu Asp His
20              25              30

```

```

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

```

```

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

```

```

Glu Gly Gln Val Thr Ile Ser Ala Asp Arg Ser Val Asn Thr Val Tyr
65              70              75              80

```

```

Leu Glu Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85              90              95

```

```

Ala Arg Val Ser Val Val Arg Lys Gly Gly Trp Phe Asp Pro Trp Gly
100              105              110

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0239 W0 00 ORD sequence listing_ST25

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 152
<211> 113
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 152

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

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

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

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

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

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

Tyr Tyr Asn Ser Pro Tyr Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile
100 105 110

Lys

0239 WO 00 ORD sequence listing_ST25

<210> 153

<211> 363

<212> DNA

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 153

cagggtgcagc tgggtgcagtc tggagcagtg gtgaaaaagc ccgggggagtc tctgaagatc 60

tcctgtgagg cttctggata catgttcctc gatcactgga tcggctgggt gcgccagatg 120

cccgaggaaag gcctggagtg gatgggaatc atctttcctg aggactctga taccagatat 180

agtgggtcct tcgaaggcca gggtaccatc tcagccgaca ggtccgtcaa caccgtctac 240

ctggagtgga gcagcctgaa ggcctcggac accgccatgt attattgtgc gagagtctca 300

gtagttcgta aagggggctg gttcgacca tggggccagg gaaccacggt caccgtctcc 360

tca 363

<210> 154

<211> 339

<212> DNA

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<220>

<221> misc_feature

<222> (5)..(6)

<223> n is a, c, g, or t

<400> 154

gaaanncaac tgacgcagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc 60

atcaactgca agtccagcca gagtctttta tacacctcca acaataagaa ctacttagct 120

tgggtaccagc agaaaccagg acagactcct aaactgctca ttatctgggc ctctaccga 180

gaatccgggg tccctgaccg attcactggc agcgggtctg ggacagattt cactctcacc 240

atcagcagcc tgcaggctga agatgtggca gtttattact gtcagcaata ttataatagt 300

ccgtacactt ttggccaagg gacacgactg gagattaaa

339

<210> 155

<211> 121

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 155

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

Ser Leu Lys Ile Ser Cys Glu Ala Ser Gly Tyr Ile Phe Ala Asp His
20 25 30

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

Gly Ile Ile Phe Pro Gly Asp Ser Asp Ile Arg Tyr Ser Pro Ser Phe
50 55 60

Glu Gly Gln Val Thr Ile Ser Val Asp Arg Ser Val Ser Thr Ala Phe
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys
85 90 95

Ala Arg Val Ala Val Val Arg Lys Gly Gly Trp Phe Asp Ser Trp Gly
100 105 110

Gln Gly Thr Arg Val Thr Val Ser Ser
115 120

<210> 156

<211> 113

0239 WO 00 ORD sequence listing_ST25

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 156

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

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

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

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

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

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

Tyr Tyr Asn Ser Pro Tyr Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile
100 105 110

Lys

<210> 157

<211> 363

<212> DNA

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

0239 WO 00 ORD sequence listing_ST25

<400> 157
cagggtacagc tgggtggagtc tggagcagaa ctgaaaaagc ccggggagtc tctgaagatc 60
tcctgtgagg catctggata catctttgcc gatcactgga tcggctgggt gcgccagatg 120
cccgggaaag gcctggagtg gatgggaatc atctttcctg gtgactctga tatcagatat 180
agtccgtcct tcgaaggcca ggtcaccatc tcagtcgaca ggtccgtcag taccgccttc 240
ctgcagtgga gcagcctgaa ggcctcggac accgccatgt atttttgtgc gagagtcgca 300
gtagtgcgta aagggggctg gttcgactcc tggggccagg gaacccgggt caccgtctcc 360
tca 363

<210> 158
<211> 339
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 158
gaaattgtga tgacccagtc tccagagtcc ctggctgtgt ctctgggcga gagggccacc 60
atcaactgca agtccacca gagtctttta tggagcgcca acaacaagaa ctacttagct 120
tggtaccggc agaaaccacg acagactcct gaactgctca ttacgtgggc ttccaccgg 180
gaatccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc 240
atcaccagcc tgcaggctga agatgtggca gtttattatt gtcaacaata ttataatagt 300
ccgtacactt ttggccaagg gacacgactg gagattaaa 339

<210> 159
<211> 126
<212> PRT
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 159

0239 WO 00 ORD sequence listing_ST25

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

Ser Leu Lys Ile Ser Cys Leu Ala Ser Gly Tyr Asp Phe Ala Ser Tyr
20 25 30

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

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

Glu Gly Arg Val Thr Met Ser Val Asp Thr Ser Thr Asn Thr Ala Tyr
65 70 75 80

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

Ala Arg Arg Asp Arg Asn Cys Ser Gly Thr Thr Cys Tyr Pro Arg Trp
100 105 110

Phe Asp Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 160

<211> 113

<212> PRT

<213> artificial

<220>

<223> Combination of PCR-generated and human sequence

<400> 160

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

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

0239 WO 00 ORD sequence listing_ST25

Gly Asn Ser Lys Asp Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

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

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

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

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

Lys

<210> 161
<211> 378
<212> DNA
<213> artificial

<220>
<223> Combination of PCR-generated and human sequence

<400> 161
caggtgcagc tgggtgcagtc tggggcagag gtgaaaaagc cgtgggagtc tctgaagatc 60
tcctgtttgg cttctggata cgactttgcc tcctactgga tcggctgggt gcgccagatg 120
cccgggaaag gcctggagtg ggtggggatc atctatcctg atgactctga taccagatac 180
aatgcgtcac tagaaggccg ggtcaccatg tcagtcgaca cgtccaccaa taccgcctac 240
ctgcagtgga ccagcctgaa ggtctcggac accggcatgt attactgtgc gagacgggat 300
cgcaattgta gtgggactac gtgttatccg aggtgggttcg actcctgggg ccagggaacc 360
ctggtcaccg tctcttca 378

0239 WO 00 ORD sequence listing_ST25

<210> 162
 <211> 339
 <212> DNA
 <213> artificial

<220>
 <223> Combination of PCR-generated and human sequence

<400> 162
 gaaattgtgc tgactcagtc tccagacttc ctggctgtgt ctctgggcga gagggccacc 60
 atcaactgca agtccagcca gagtcttttc tacagcggca acagtaagga cttcttagct 120
 tgggtaccagc agaaaccagg acagcctcct cgcttgctcg tttactgggc atctaccgg 180
 gattccggggg tccctgagcg attcagtggc agcgggtctg ggacagattt tactctcacc 240
 atcagccgcc tgcaggctga agatgtggct ctttattact gtcaccaata tcatagtact 300
 cctctctctt tcggcggagg gaccaaggtg gaaatcaaa 339

<210> 163
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 163

Ser Tyr Trp Met His
 1 5

<210> 164
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 164

Arg Ile Asn Ser Asp Gly Ser Asp Thr Asn Tyr Ala Asp Ser Val Lys
 1 5 10 15

Gly

0239 W0 00 ORD sequence listing_ST25

<210> 165
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 165

Gly Arg Ser Tyr Gly Phe Phe Asp Tyr
 1 5

<210> 166
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 166

Arg Ala Ser Gln Ile Ile Ser Ser Asn Tyr Leu Ala
 1 5 10

<210> 167
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 167

Gly Ala Ser Ser Arg Ala Thr
 1 5

<210> 168
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 168

Gln Gln Tyr Gly Thr Ser Pro Arg Thr
 1 5

<210> 169
 <211> 5

0239 W0 00 ORD sequence listing_ST25

<212> PRT

<213> Homo sapiens

<400> 169

Thr Tyr Gly Met His
1 5

<210> 170

<211> 17

<212> PRT

<213> Homo sapiens

<400> 170

Val Ile Trp Phe Asp Gly Asn Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 171

<211> 15

<212> PRT

<213> Homo sapiens

<400> 171

Asp Trp Trp Glu Ala Gly Cys Arg Pro Cys Tyr Phe Phe Asp Tyr
1 5 10 15

<210> 172

<211> 17

<212> PRT

<213> Homo sapiens

<400> 172

Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Asn Lys Asn Tyr Leu
1 5 10 15

Ala

0239 W0 00 ORD sequence listing_ST25

<210> 173
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 173

Trp Ala Ser Thr Arg Glu Ser
 1 5

<210> 174
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 174

Gln Gln Tyr Tyr Ser Pro Pro Leu Thr
 1 5

<210> 175
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 175

Asp Tyr Trp Met Ser
 1 5

<210> 176
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 176

Asn Ile Asn Gln Asp Gly Ser Ala Ala Tyr Tyr Val Asp Ser Val Arg
 1 5 10 15

Gly

0239 WO 00 ORD sequence listing_ST25

<210> 177
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 177

Asp	Ala	His	Tyr	Tyr	Asp	Arg	Asn	Arg	Asn	Asn	Tyr	Tyr	Tyr	Tyr	Phe
1				5					10					15	

Asp Phe

<210> 178
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 178

Arg	Ala	Ser	Gln	Ser	Val	Gly	Ala	Asn	Leu	Ala
1				5					10	

<210> 179
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 179

Ser	Ala	Ser	Thr	Arg	Ala	Thr
1				5		

<210> 180
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 180

Gln	Gln	Tyr	Asn	Asn	Trp	Pro	Arg	Thr
1				5				

0239 WO 00 ORD sequence listing_ST25

<210> 181
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 181

Ser Gly Asn Tyr Tyr Trp Ser
 1 5

<210> 182
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 182

Arg Met Ser Ser Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys Ser
 1 5 10 15

<210> 183
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 183

Glu Ser Gly Ser Ser Trp Gln Asn His Tyr Tyr Tyr Tyr Gly Met Asp
 1 5 10 15

Val

<210> 184
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 184

Gln Gln Tyr Tyr Ser Thr Pro Leu Thr
 1 5

0239 W0 00 ORD sequence listing_ST25

<210> 185
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 185

Asn Tyr Ala Met Ser
 1 5

<210> 186
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 186

Gly Ile Ser Ser Asp Gly Asn Thr Phe Tyr Ala Asp Ser Val Lys Gly
 1 5 10 15

<210> 187
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 187

Glu Ser Gly Arg Trp Gly Gly Gly Thr Leu Tyr Gly Ala His Tyr
 1 5 10 15

<210> 188
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 188

Lys Ser Ser Gln Ser Leu Leu Tyr Asn Ser Asn Asn Lys Asn Tyr Leu
 1 5 10 15

Thr

0239 W0 00 ORD sequence listing_ST25

<210> 189
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 189

Gln Gln Tyr Tyr Ser Ser Pro Leu Thr
 1 5

<210> 190
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 190

Asp Tyr Asn Val His
 1 5

<210> 191
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 191

Arg Ile Ser Pro Asn Ser Gly Gly Thr Lys Tyr Ala Gln Lys Phe Gln
 1 5 10 15

Gly

<210> 192
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 192

Gly His Cys Asp Gly Thr Thr Cys Ser Arg Ala Tyr
 1 5 10

0239 W0 00 ORD sequence listing_ST25

<210> 193
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 193

Arg	Ser	Ser	Gln	Ser	Leu	Leu	His	Arg	Ser	Gly	His	Lys	Tyr	Leu	His
1				5					10					15	

<210> 194
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 194

Leu	Gly	Ser	Asn	Arg	Ala	Ser
1				5		

<210> 195
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 195

Met	Gln	Thr	Leu	Gln	Thr	Pro	Trp	Thr
1				5				

<210> 196
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 196

Gly	Tyr	Tyr	Leu	His
1				5

<210> 197
 <211> 17

0239 W0 00 ORD sequence listing_ST25

<212> PRT

<213> Homo sapiens

<400> 197

Trp	Val	Asn	Pro	Arg	Ser	Gly	Gly	Thr	Ser	Tyr	Pro	Pro	Lys	Phe	Gln
1				5					10					15	

Gly

<210> 198

<211> 11

<212> PRT

<213> Homo sapiens

<400> 198

Gly	Arg	Ile	Pro	Asp	Val	Thr	Ala	Phe	Asp	Ile
1				5					10	

<210> 199

<211> 17

<212> PRT

<213> Homo sapiens

<400> 199

Lys	Ser	Ser	Glu	Ser	Leu	Leu	Tyr	Asp	Ser	Asn	Asn	Lys	Asn	Tyr	Leu
1				5					10					15	

Ala

<210> 200

<211> 9

<212> PRT

<213> Homo sapiens

<400> 200

Gln	Gln	Tyr	Phe	Ser	Thr	Pro	Trp	Thr
1				5				

0239 WO 00 ORD sequence listing_ST25

<210> 201
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 201

Asp Tyr Trp Thr Ala
 1 5

<210> 202
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 202

Ile Ile Tyr Ser Gly Asp Ser Asp Thr Arg Tyr His Pro Ser Val Gln
 1 5 10 15

Gly

<210> 203
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 203

Leu Asp Ala Arg Val Asp Ala Gly Trp Gln Leu Asp Ser
 1 5 10

<210> 204
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 204

Lys Ser Ser Gln Ser Val Phe Ser Arg Asp Asn Asn Lys Asn Tyr Leu
 1 5 10 15

0239 WO 00 ORD sequence listing_ST25

Ala

<210> 205
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 205

Trp Ala Ser Ser Arg Glu Ser
 1 5

<210> 206
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 206

Gln His Tyr Phe Asn Thr Pro His Asn
 1 5

<210> 207
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 207

Asn Tyr Trp Ile Gly
 1 5

<210> 208
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 208

Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Pro Phe Gln
 1 5 10 15

Gly

<210> 209
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 209

Val	Gly	Arg	Pro	Ser	Lys	Gly	Gly	Trp	Phe	Asp	Pro
1				5					10		

<210> 210
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 210

Glu	Ser	Ser	Gln	Thr	Leu	Leu	Tyr	Ser	Ser	Asn	Glu	Lys	Asn	Tyr	Leu
1				5					10					15	

Ala

<210> 211
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 211

Trp	Ala	Ser	Thr	Pro	Glu	Ser
1				5		

<210> 212
 <211> 9
 <212> PRT
 <213> Homo sapiens

0239 W0 00 ORD sequence listing_ST25

<400> 212

Gln Gln Tyr Tyr Asn Ser Pro Tyr Thr
1 5

<210> 213

<211> 5

<212> PRT

<213> Homo sapiens

<400> 213

Asp Ser Tyr Met Ser
1 5

<210> 214

<211> 17

<212> PRT

<213> Homo sapiens

<400> 214

Tyr Ile Ser Arg Ser Ser Ser His Thr Asn Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 215

<211> 17

<212> PRT

<213> Homo sapiens

<400> 215

Val Gln Thr Thr Met Ile Glu Gly Lys Thr Lys Leu Asn Tyr Phe Asp
1 5 10 15

Tyr

<210> 216

0239 WO 00 ORD sequence listing_ST25

<211> 17
 <212> PRT
 <213> Homo sapiens

<400> 216

Glu	Ser	Ser	His	Ser	Leu	Leu	Tyr	Arg	Ser	Asn	Asn	Arg	Asn	Tyr	Leu
1				5					10					15	

Ala

<210> 217
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 217

Gln	Gln	Phe	Tyr	Thr	Thr	Pro	Tyr	Thr
1				5				

<210> 218
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 218

Glu	Ser	Ser	His	Ser	Leu	Leu	Tyr	Arg	Ser	Asn	Asn	Lys	Asn	Tyr	Leu
1				5					10					15	

Ala

<210> 219
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 219

Lys Ala Trp Met Ser

0239 WO 00 ORD sequence listing_ST25

1 5

<210> 220
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 220

Arg Ile Lys Ser Lys Val Asp Gly Glu Thr Thr Asp Tyr Ala Ala Pro
 1 5 10 15

Val Arg Gly

<210> 221
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 221

Leu Ile His Cys Asp Leu Ser Ala Cys Leu Pro His Phe
 1 5 10

<210> 222
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 222

Asn Tyr Trp Ile Ala
 1 5

<210> 223
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 223

Ile Ile Tyr Pro Gly Asp Ser Asp Thr Thr Tyr Ser Pro Ser Phe Gln

0239 WO 00 ORD sequence listing_ST25

1 5 10 15

Gly

<210> 224
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 224

Leu Pro Arg Thr Asp Gly Asp Asn Ser Ile Gly Tyr Phe Glu Tyr
 1 5 10 15

<210> 225
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 225

Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Ser Glu Asn Tyr Leu
 1 5 10 15

Ala

<210> 226
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 226

Gln Gln Tyr Tyr Ser Thr Pro Phe Thr
 1 5

<210> 227
 <211> 5
 <212> PRT
 <213> Homo sapiens

0239 W0 00 ORD sequence listing_ST25

<400> 227

Ser Tyr Ser Met Asn
1 5

<210> 228

<211> 17

<212> PRT

<213> Homo sapiens

<400> 228

Tyr Ile Ser Ser Ser Thr Thr Thr Ile Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 229

<211> 12

<212> PRT

<213> Homo sapiens

<400> 229

Val Pro Ala Pro Arg Leu Gly Gly Ser Tyr Thr Tyr
1 5 10

<210> 230

<211> 12

<212> PRT

<213> Homo sapiens

<400> 230

Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala
1 5 10

<210> 231

<211> 9

<212> PRT

<213> Homo sapiens

0239 WO 00 ORD sequence listing_ST25

<400> 231

Gln Gln Tyr Gly Thr Ser Pro Leu Thr
1 5

<210> 232

<211> 5

<212> PRT

<213> Homo sapiens

<400> 232

Asp Ala Trp Met Ser
1 5

<210> 233

<211> 19

<212> PRT

<213> homo sapiens

<400> 233

Arg Ile Lys Ser Lys Asn Val Gly Glu Thr Thr Asp Tyr Ala Glu His
1 5 10 15

Val Arg Gly

<210> 234

<211> 8

<212> PRT

<213> homo sapiens

<400> 234

Gly Leu Gly Gly Gly Thr Tyr Gly
1 5

<210> 235

<211> 16

<212> PRT

<213> Homo sapiens

0239 W0 00 ORD sequence listing_ST25

<400> 235

Arg Ser Ser Ala Gly Leu Arg Asn Asn Asp Gly Asp Ile Leu Leu Ser
1 5 10 15

<210> 236

<211> 7

<212> PRT

<213> homo sapiens

<400> 236

Arg Val Ser Arg Arg Asp Ser
1 5

<210> 237

<211> 5

<212> PRT

<213> homo sapiens

<400> 237

Met Arg Gly Pro Tyr
1 5

<210> 238

<211> 5

<212> PRT

<213> Homo sapiens

<400> 238

Ile Tyr Glu Met Asn
1 5

<210> 239

<211> 17

<212> PRT

<213> Homo sapiens

<400> 239

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

1 5 10 15

Gly

<210> 240
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 240

Pro Arg Ile Gly Ala Arg Val Phe Asp Val
 1 5 10

<210> 241
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 241

Lys Ser Ser Gln Thr Leu Leu Tyr Lys Ser Asn Asn Glu Asn Tyr Leu
 1 5 10 15

Ala

<210> 242
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 242

Gln Gln Tyr Phe Thr Thr Ala Leu Thr
 1 5

<210> 243
 <211> 5
 <212> PRT
 <213> Homo sapiens

0239 WO 00 ORD sequence listing_ST25

<400> 243

Asp His Trp Ile Gly
1 5

<210> 244

<211> 17

<212> PRT

<213> Homo sapiens

<400> 244

Ile Ile Phe Pro Glu Asp Ser Asp Thr Arg Tyr Ser Gly Ser Phe Glu
1 5 10 15

Gly

<210> 245

<211> 12

<212> PRT

<213> Homo sapiens

<400> 245

Val Ser Val Val Arg Lys Gly Gly Trp Phe Asp Pro
1 5 10

<210> 246

<211> 17

<212> PRT

<213> Homo sapiens

<400> 246

Lys Ser Ser Gln Ser Leu Leu Tyr Thr Ser Asn Asn Lys Asn Tyr Leu
1 5 10 15

Ala

0239 WO 00 ORD sequence listing_ST25

<210> 247
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 247

Ile	Ile	Phe	Pro	Gly	Asp	Ser	Asp	Ile	Arg	Tyr	Ser	Pro	Ser	Phe	Glu
1				5					10					15	

Gly

<210> 248
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 248

Val	Ala	Val	Val	Arg	Lys	Gly	Gly	Trp	Phe	Asp	Ser
1				5				10			

<210> 249
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 249

Lys	Ser	Thr	Gln	Ser	Leu	Leu	Trp	Ser	Ala	Asn	Asn	Lys	Asn	Tyr	Leu
1				5					10					15	

Ala

<210> 250
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 250

0239 W0 00 ORD sequence listing_ST25

Ser Tyr Trp Ile Gly
1 5

<210> 251
<211> 17
<212> PRT
<213> Homo sapiens

<400> 251

Ile Ile Tyr Pro Asp Asp Ser Asp Thr Arg Tyr Asn Ala Ser Leu Glu
1 5 10 15

Gly

<210> 252
<211> 17
<212> PRT
<213> Homo sapiens

<400> 252

Arg Asp Arg Asn Cys Ser Gly Thr Thr Cys Tyr Pro Arg Trp Phe Asp
1 5 10 15

Ser

<210> 253
<211> 17
<212> PRT
<213> Homo sapiens

<400> 253

Lys Ser Ser Gln Ser Leu Phe Tyr Ser Gly Asn Ser Lys Asp Phe Leu
1 5 10 15

Ala

0239 W0 00 ORD sequence listing_ST25

<210> 254
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 254

Trp Ala Ser Thr Arg Asp Ser
 1 5

<210> 255
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 255

His Gln Tyr His Ser Thr Pro Leu Ser
 1 5

<210> 256
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 256
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 tcctgtgcag cctctggatt caccttcagt agctactgga tgcactgggt cgcceaagct 120
 ccagggaagg ggctggtgtg ggtctcacgt attaatagtg atgggagtag cacaagctac 180
 gcggactccg tgaagggccg attcaccatc tccagagaca acgccaagaa cacgctgtat 240
 ctgcaaatga acagtctgag agccgaggac acggctgtgt attactgtgc aagaga 296

<210> 257
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 257

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

0239 WO 00 ORD sequence listing_ST25

1	5	10	15
Ser	Leu	Arg	Leu
20	Ser	Cys	Ala
25	Ala	Ser	Gly
30	Phe	Thr	Phe
Ser	Ser	Tyr	
35	Trp	Met	His
40	Trp	Val	Arg
45	Gln	Ala	Pro
50	Gly	Lys	Gly
55	Leu	Val	Trp
60	Val		
Ser	Arg	Ile	Asn
65	Ser	Asp	Gly
70	Ser	Asp	Thr
75	Asn	Tyr	Ala
80	Asp	Ser	Val
85	Lys	Gly	Arg
90	Phe	Thr	Phe
95	Ser	Arg	Asp
100	Asn	Ala	Lys
105	Asn	Thr	Leu
	Tyr		
Leu	Gln	Met	Thr
85	Ser	Leu	Arg
90	Ala	Glu	Asp
95	Thr	Ala	Ile
	Tyr	Tyr	Cys
Thr	Arg	Gly	Arg
100	Ser	Tyr	Gly
105	Phe	Phe	Asp
	Tyr		

<210> 258
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 258	
gaaattgtgt tgacgcagtc tccagccacc ctgtctttgt ctccagggga aagagccacc	60
ctctcctgca gggccagtca gagtgtagc agcagctact tagcctggta ccagcagaaa	120
cctggccagg ctcccaggct cctcatctat gatgcatcca gcagggccac tggcatccca	180
gacagggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag	240
cctgaagatt ttgcagtcta ttactgtcag cagcgtagca actggcat	288

<210> 259
 <211> 98
 <212> PRT
 <213> Homo sapiens

0239 WO 00 ORD sequence listing_ST25

<400> 259

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

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

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

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

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

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro
85 90 95

Arg Thr

<210> 260

<211> 296

<212> DNA

<213> Homo sapiens

<400> 260

caggtgcagc tgggtggagtc tgggggaggc gtgggtccagc ctgggaggtc cctgagactc	60
tcctgtgcag cgtctggatt caccttcagt agctatggca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatggtatg atggaagtaa taaatactat	180
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat	240
ctgcaaatga acagcctgag agccgaggac acggctgtgt attactgtgc gagaga	296

0239 WO 00 ORD sequence listing_ST25

<210> 261
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 261

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

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

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

Ala Val Ile Trp Phe Asp Gly Asn Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

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

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

Ala Arg Asp Trp Trp Glu Ala Gly Cys Arg Pro Cys Tyr Phe Phe Asp
 100 105 110

Tyr

<210> 262
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 262

gacatcgtga tgacccagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc 60

atcaactgca agtccagcca gagtgtttta tacagctcca acaataagaa ctacttagct 120

0239 W0 00 ORD sequence listing_ST25

tggtaccagc agaaaccagg acagcctcct aagctgctca tttactgggc atctacccgg	180
gaatccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc	240
atcagcagcc tgcaggctga agatgtggca gtttattact gtcagcaata ttatagtact	300
cctcc	305

<210>	263
<211>	103
<212>	PRT
<213>	Homo sapiens

<400> 263

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

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

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

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

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

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

Tyr Tyr Ser Pro Pro Leu Thr
100

$\langle 210 \rangle$	264
$\langle 211 \rangle$	296
$\langle 212 \rangle$	DNA

0239 WO 00 ORD sequence listing_ST25

<213> Homo sapiens

<400> 264

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gaggtgcagc tgggtggagtc tgggggaggc ttgggtccagc ctgggggggtc cctgagactc      60
tcctgtgcag cctctggatt caccttcagt agctatgcta tgcactgggt cgcaggct      120
ccagggaagg gactggaata tggttcagct attagtagta atgggggtag cacatattat      180
gcaaactctg tgaagggcag attcaccatc tccagagaca attccaagaa cagctgtat      240
cttcaaatgg gcagcctgag agctgaggac atggctgtgt attactgtgc gagaga      296

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<210> 265

<211> 116

<212> PRT

<213> Homo sapiens

<400> 265

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Glu Val Gln Leu Val 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 Asp Tyr
20           25           30

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

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

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

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

Ala Lys Asp Ala His Tyr Tyr Asp Arg Asn Arg Asn Asn Tyr Tyr Tyr
100          105          110

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0239 W0 00 ORD sequence listing_ST25

Tyr Phe Asp Phe
115

<210> 266
<211> 287
<212> DNA
<213> Homo sapiens

<400> 266
gaaatagtga tgacgcagtc tccagccacc ctgtctgtgt ctccagggga aagagccacc 60
ctctcctgca gggccagtca gagtgtagc agcaacttag cctggtacca gcagaaacct 120
ggccaggctc ccaggctcct catctatggt gcatccacca gggccactgg tatcccagcc 180
aggttcagtg gcagtgggtc tgggacagag ttactctca ccatcagcag cctgcagtct 240
gaagattttg cagtttatta ctgtcagcag tataataact ggcctcc 287

<210> 267
<211> 97
<212> PRT
<213> Homo sapiens

<400> 267

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Gly Ala Asn
20 25 30

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

Tyr Ser Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80

0239 WO 00 ORD sequence listing_ST25

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro Arg
85 90 95

Thr

<210> 268
<211> 291
<212> DNA
<213> Homo sapiens

<400> 268
caggtgcagc tgcaggagtc gggcccagga ctggtgaagc cttcacagac cctgtccctc 60
acctgcactg tctctggtgg ctccatcagc agtggtgggtt actactggag ctggatccgc 120
cagcaccag ggaagggcct ggagtggatt ggggtacatct attacagtgg gagcacctac 180
tacaaccgt ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc 240
tccctgaagc tgagctctgt gaccgcggac gcggccgtgt attactgtgc g 291

<210> 269
<211> 116
<212> PRT
<213> Homo sapiens

<400> 269

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
20 25 30

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

Trp Ile Gly Arg Met Ser Ser Ser Gly Ser Thr Asn Tyr Asn Pro Ser
50 55 60

0239 W0 00 ORD sequence listing_ST25

Leu Lys Ser Arg Val Thr Met Ser Glu Asp Thr Ser Lys Asn Gln Phe
65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Glu Ser Gly Ser Ser Trp Gln Asn His Tyr Tyr Tyr Tyr
100 105 110

Gly Met Asp Val
115

<210> 270
<211> 103
<212> PRT
<213> Homo sapiens

<400> 270

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

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

Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Ser Gly Gln
35 40 45

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

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

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

0239 WO 00 ORD sequence listing_ST25

Tyr Tyr Ser Thr Pro Leu Thr
100

<210> 271
<211> 296
<212> DNA
<213> Homo sapiens

<400> 271
gaggtgcagc tgggtggagtc tgggggaggc ttggtacagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggatt cacctttagc agctatgcca tgagctgggt ccgccaggct 120
ccagggaagg ggctggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gaaaga 296

<210> 272
<211> 112
<212> PRT
<213> Homo sapiens

<400> 272

Glu Val Gln Leu Val 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 Arg Asn Tyr
20 25 30

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

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

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

0239 W0 00 ORD sequence listing_ST25

Gln Val Asn Ser Leu Arg Ala Asp Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Lys Glu Ser Gly Arg Trp Gly Gly Gly Thr Leu Tyr Gly Ala His Tyr
100 105 110

<210> 273
<211> 103
<212> PRT
<213> Homo sapiens

<400> 273

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

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

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

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

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

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

Tyr Tyr Ser Ser Pro Leu Thr
100

<210> 274
<211> 296
<212> DNA
<213> Homo sapiens

0239 WO 00 ORD sequence listing_ST25

<400> 274
caggtgcagc tgggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtc 60
tcctgcaagg cttctggata caccttcacc ggctactata tgcactgggt gcgacaggcc 120
cctggacaag ggcttgagtg gatgggatgg atcaacccta acagtgggtg cacaaactat 180
gcacagaagt ttcagggcag ggtcaccatg accagggaca cgtccatcag cacagcctac 240
atggagctga gcaggctgag atctgacgac acggccgtgt attactgtgc gagaga 296

<210> 275
<211> 110
<212> PRT
<213> Homo sapiens

<400> 275

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

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

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

Gly Arg Ile Ser Pro Asn Ser Gly Gly Thr Lys Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Met Ser Met Asn Thr Ala Tyr
65 70 75 80

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

Val Arg Gly His Cys Asp Gly Thr Thr Cys Ser Arg Ala Tyr
100 105 110

<210> 276

0239 WO 00 ORD sequence listing_ST25

<211> 302

<212> DNA

<213> Homo sapiens

<400> 276

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gatattgtga tgactcagtc tccactctcc ctgcccgtca cccctggaga gccggcctcc      60
atctcctgca ggtctagtca gagcctcctg catagtaatg gatacaacta tttggattgg      120
tacctgcaga agccagggca gtctccacag ctctgatctt atttgggttc taatcgggcc      180
tccgggggtcc ctgacagggtt cagtggcagt ggatcaggca cagattttac actgaaaatc      240
agcagagtgg aggctgagga tgttgggggtt tattactgca tgcaagctct acaaactcct      300
cc                                                                    302

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<210> 277

<211> 102

<212> PRT

<213> Homo sapiens

<400> 277

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

```

```

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Arg
20           25           30

```

```

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

```

```

Pro Gln Val Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
50           55           60

```

```

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

```

```

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

```

0239 W0 00 ORD sequence listing_ST25

Leu Gln Thr Pro Trp Thr
100

<210> 278
<211> 296
<212> DNA
<213> Homo sapiens

<400> 278
cagggtccagc ttgtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtt 60
tcctgcaagg cttctggata caccttcact agctatgcta tgcattgggt gcgccaggcc 120
cccggacaaa ggcttgagtg gatgggatgg atcaacgtg gcaatggtaa cacaaaatat 180
tcacagaagt tccagggcag agtcaccatt accagggaca catccgcgag cacagcctac 240
atggagctga gcagcctgag atctgaagac acggctgtgt attactgtgc gagaga 296

<210> 279
<211> 109
<212> PRT
<213> Homo sapiens

<400> 279

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

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

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

Gly Trp Val Asn Pro Arg Ser Gly Gly Thr Ser Tyr Pro Pro Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Asn Thr Ala Tyr
65 70 75 80

0239 W0 00 ORD sequence listing_ST25

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

Ala Val Gly Arg Ile Pro Asp Val Thr Ala Phe Asp Ile
 100 105

<210> 280
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 280

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

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

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

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

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

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

Tyr Phe Ser Thr Pro Trp Thr
 100

<210> 281
 <211> 296
 <212> DNA
 <213> Homo sapiens

0239 W0 00 ORD sequence listing_ST25

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<400> 281
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc      60
tcctgtaagg gttctggata cagctttacc agctactgga tcggctgggt gcgccagatg      120
cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac      180
agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac      240
ctgcagtgga gcagcctgaa ggcctcggac accgccatgt attactgtgc gagaca          296

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<210> 282
<211> 111
<212> PRT
<213> Homo sapiens

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<400> 282

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

Ser Leu Lys Ile Ser Cys Lys Thr Ser Gly Tyr Ile Phe Ser Asp Tyr
          20          25          30

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

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

Gln Gly His Val Thr Met Ser Thr Asp Ser Ser Leu Thr Thr Ala Tyr
65          70          75          80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Gly Ile Tyr Tyr Cys
          85          90          95

Ala Arg Leu Asp Ala Arg Val Asp Ala Gly Trp Gln Leu Asp Ser
          100         105         110

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0239 WO 00 ORD sequence listing_ST25

<210> 283
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 283

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

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Phe Ser Arg
 20 25 30

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

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

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

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

Tyr Phe Asn Thr Pro His Asn
 100

<210> 284
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 284

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

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

0239 W0 00 ORD sequence listing_ST25

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

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Pro Phe
 50 55 60

Gln Gly Gln Val Thr Ile Thr Ala Asp Arg Ser Ile Thr Thr Ala Tyr
 65 70 75 80

Leu Glu Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95

Ala Arg Val Gly Arg Pro Ser Lys Gly Gly Trp Phe Asp Pro
 100 105 110

<210> 285
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 285

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

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

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

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

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

0239 WO 00 ORD sequence listing_ST25

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

Tyr Tyr Asn Ser Pro Tyr Thr
100

<210> 286
<211> 296
<212> DNA
<213> Homo sapiens

<400> 286
caggtgcagc tgggtggagtc tgggggaggc ttggtcaagc ctggagggtc cctgagactc 60
tcctgtgcag cctctggatt caccttcagt gactactaca tgagctggat ccgccaggct 120
ccagggaagg ggctggagtg ggtttcatatc attagtagta gtagtagtta cacaaactac 180
gcagactctg tgaagggccg attcaccatc tccagagaca acgccaagaa ctactgtat 240
ctgcaaatga acagcctgag agccgaggac acggctgtgt attactgtgc gagaga 296

<210> 287
<211> 115
<212> PRT
<213> Homo sapiens

<400> 287

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

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

Tyr Met Ser Trp Ile Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

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

0239 W0 00 ORD sequence listing_ST25

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

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

Ala Arg Val Gln Thr Thr Met Ile Glu Gly Lys Thr Lys Leu Asn Tyr
100 105 110

Phe Asp Tyr
115

<210> 288
<211> 103
<212> PRT
<213> Homo sapiens

<400> 288

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

Glu Arg Val Thr Ile Thr Cys Glu Ser Ser His Ser Leu Leu Tyr Arg
20 25 30

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

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

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

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

0239 WO 00 ORD sequence listing_ST25

Phe Tyr Thr Thr Pro Tyr Thr
100

<210> 289
<211> 115
<212> PRT
<213> Homo sapiens

<400> 289

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

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

Tyr Met Ser Trp Ile Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

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

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

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

Ala Arg Val Gln Thr Thr Met Ile Glu Gly Lys Thr Lys Leu Asn Tyr
100 105 110

Phe Asp Tyr
115

<210> 290
<211> 103
<212> PRT
<213> Homo sapiens

0239 WO 00 ORD sequence listing_ST25

<400> 290

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

Glu Arg Val Thr Ile Ser Cys Glu Ser Ser His Ser Leu Leu Tyr Arg
20 25 30

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

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

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

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

Phe Tyr Thr Thr Pro Tyr Thr
100

<210> 291

<211> 302

<212> DNA

<213> Homo sapiens

<400> 291

gaggtgcagc tgggtggagtc tgggggaggc ttggtaaagc ctgggggggtc ccttagactc 60

tcctgtgcag cctctggatt cactttcagt aacgcctgga tgagctgggt ccgccaggct 120

ccagggaagg ggctggagtg ggttggccgt attaaaagca aaactgatgg tgggacaaca 180

gactacgctg caccctgaa aggagattc accatctcaa gagatgattc aaaaaacacg 240

ctgtatctgc aaatgaacag cctgaaaacc gaggacacag ccgtgtatta ctgtaccaca 300

ga 302

0239 WO 00 ORD sequence listing_ST25

<210> 292
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 292

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

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr Lys Ala Trp Met
 20 25 30

Ser Trp Val Arg Gln Thr Pro Gly Arg Gly Leu Glu Trp Leu Gly Arg
 35 40 45

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

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

Leu Gln Met Thr Gly Leu Arg Thr Glu Asp Thr Gly Val Tyr Phe Cys
 85 90 95

Thr Thr Leu Ile His Cys Asp Leu Ser Ala Cys Leu Pro His Phe
 100 105 110

<210> 293
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 293

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

Glu Arg Val Thr Ile Ser Cys Glu Ser Ser His Ser Leu Leu Tyr Arg

0239 WO 00 ORD sequence listing_ST25

20

25

30

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

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

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

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

Phe Tyr Thr Thr Pro Tyr Thr
100

<210> 294

<211> 294

<212> DNA

<213> Homo sapiens

<400> 294

gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc cgggggagtc tctgaagatc 60

tcctgtaagg gttctggata cagctttacc agctactgga tcggctgggt gcgccagatg 120

cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180

agcccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240

ctgcagtgga gcagcctgaa ggcctcggac accgcatgt attactgtgc gaga 294

<210> 295

<211> 113

<212> PRT

<213> Homo sapiens

<400> 295

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

0239 WO 00 ORD sequence listing_ST25

1	5	10	15
Ser	Leu	Lys	Ile
20	Ser	Cys	Lys
Gly	Ser	Gly	Tyr
25	Ser	Phe	Ser
30	Asn	Tyr	
Trp	Ile	Ala	Trp
35	Val	Arg	Gln
40	Met	Pro	Gly
45	Lys	Gly	Leu
50	Glu	Cys	Met
55	Gly	Ile	Ile
60	Tyr	Pro	Gly
65	Asp	Ser	Asp
70	Thr	Thr	Tyr
75	Ser	Pro	Ser
80	Phe		
85	Gln	Gly	Gln
90	Val	Thr	Ile
95	Ser	Ala	Asp
100	Lys	Ser	Val
105	Ser	Thr	Thr
110	Tyr		
115	Leu	Gln	Trp
120	Ser	Ser	Leu
125	Lys	Ala	Ser
130	Asp	Ser	Ala
135	Met	Tyr	Tyr
140	Cys		
145	Ala	Arg	Leu
150	Pro	Arg	Thr
155	Asp	Gly	Asp
160	Asn	Ser	Ile
165	Gly	Tyr	Phe
170	Glu		

Tyr

<210> 296
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 296

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Ala	Ser	Leu	Ala	Val	Ser	Leu	Gly
1				5				10						15	
Glu	Arg	Ala	Thr	Ile	Asn	Cys	Lys	Ser	Ser	Gln	Ser	Val	Leu	Tyr	Ser
20								25					30		
Ser	Asn	Ser	Glu	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln
35							40					45			

0239 WO 00 ORD sequence listing_ST25

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

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

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

Tyr Tyr Ser Thr Pro Phe Thr
100

<210> 297
<211> 296
<212> DNA
<213> Homo sapiens

<400> 297
gaggtgcagc tgggtggagtc tgggggaggc ttggtacagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggatt caccttcagt agctatagca tgaactgggt ccgccaggct 120
ccagggaagg ggctggagtg ggtttcatac attagtagta gtagtagtac catatactac 180
gcagactctg tgaagggccg attcaccatc tccagagaca atgccaagaa ctactgtat 240
ctgcaaatga acagcctgag agccgaggac acggctgtgt attactgtgc gagaga 296

<210> 298
<211> 108
<212> PRT
<213> Homo sapiens

<400> 298

Glu Val Gln Leu Val 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 Ser Tyr
20 25 30

0239 WO 00 ORD sequence listing_ST25

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

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

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

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

Val Pro Ala Pro Arg Leu Gly Gly Ser Tyr Thr Tyr
100 105

<210> 299
<211> 290
<212> DNA
<213> Homo sapiens

<400> 299
gaaatttgtg tgacgcagtc tccaggcacc ctgtctttgt ctccagggga aagagccacc 60
ctctcctgca gggccagtca gagggttagc agcagctact tagcctggta ccagcagaaa 120
cctggccagg ctcccaggct cctcatctat ggtgcatcca gcagggccac tggcatccca 180
gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag 240
cctgaagatt ttgcagtgta ttactgtcag cagtatggta gctcacctcc 290

<210> 300
<211> 98
<212> PRT
<213> Homo sapiens

<400> 300

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

0239 W0 00 ORD sequence listing_ST25

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

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

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

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro
85 90 95

Leu Thr

<210> 301
<211> 302
<212> DNA
<213> Homo sapiens

<400> 301
gaggtgcagc tgggtggagtc tggggggagcc ttggtaaagc ctgggggggtc ccttagactc 60
tcctgtgcag cctctggatt cactttcagt aacgcctgga tgagctgggt ccgccaggct 120
ccagggaagg ggctggagtg ggttggccgt attaaaagca aaactgatgg tgggacaaca 180
gactacgctg caccctgtaa aggcagattc accatctcaa gagatgattc aaaaaacacg 240
ctgtatctgc aaatgaacag cctgaaaacc gaggacacag ccgtgtatta ctgtaccaca 300
ga 302

<210> 302
<211> 108
<212> PRT

0239 WO 00 ORD sequence listing_ST25

<213> Homo sapiens

<400> 302

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

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

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

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

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

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

Tyr Cys Thr Thr Gly Leu Gly Gly Gly Thr Tyr Gly
100 105

<210> 303

<211> 302

<212> DNA

<213> Homo sapiens

<400> 303

gatgttgatga tgactcagtc tccactctcc ctgcccgtca cccttggaca gccggcctcc	60
atctcctgca ggtctagtca aagcctcgta tacagtgatg gaaacaccta cttgaattgg	120
tttcagcaga ggccaggcca atctccaagg cgcctaattt ataaggtttc taaccgggac	180
tctgggggtcc cagacagatt cagcggcagt gggtcaggca ctgatttcac actgaaaatc	240
agcaggggtgg aggctgagga tggtgggggtt tattactgca tgcaaggtag acactggcct	300

cc

302

<210> 304
 <211> 98
 <212> PRT
 <213> Homo sapiens
 <400> 304

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

Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Ala Gly Leu Arg Asn Asn
 20 25 30

Asp Gly Asp Ile Leu Leu Ser Trp Phe His Gln Arg Pro Gly Gln Ser
 35 40 45

Pro Arg Arg Leu Phe Tyr Arg Val Ser Arg Arg Asp Ser Gly Val Pro
 50 55 60

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

Asn Ser Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Arg Gly
 85 90 95

Pro Tyr

<210> 305
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 305

gaggtgcagc tgggtggagtc tggggggaggc ttggtacagc ctggagggtc cctgagactc 60

tcctgtgcag cctctggatt caccttcagt agttatgaaa tgaactgggt cgcaggct 120

0239 W0 00 ORD sequence listing_ST25

ccaggggaagg ggctggagtg ggtttcatac attagtagta gtgtagtac catatactac 180
gcagactctg tgaagggccg attcaccatc tccagagaca acgccaagaa ctactgtat 240
ctgcaaatga acagcctgag agccgaggac acggctgttt attactgtgc gagaga 296

<210> 306
<211> 108
<212> PRT
<213> Homo sapiens

<400> 306

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

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

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

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

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

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

Ala Lys Pro Arg Ile Gly Ala Arg Val Phe Asp Val
100 105

<210> 307
<211> 103
<212> PRT
<213> Homo sapiens

<400> 307

0239 WO 00 ORD sequence listing_ST25

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

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

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

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

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

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

Tyr Phe Thr Thr Ala Leu Thr
100

<210> 308
<211> 296
<212> DNA
<213> Homo sapiens

<400> 308
gaggtgcagc tgggtgcagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatc 60
tcctgtaagg gttctggata cagctttacc agctactgga tcggctgggt gcgccagatg 120
cccggaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
agccgtcct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac 240
ctgcagtgga gcagcctgaa ggcctcggac accgccatgt attactgtgc gagaca 296

<210> 309
<211> 110

0239 WO 00 ORD sequence listing_ST25

<212> PRT

<213> Homo sapiens

<400> 309

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

Ser Leu Lys Ile Ser Cys Glu Ala Ser Gly Tyr Met Phe Leu Asp His
20 25 30

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

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

Glu Gly Gln Val Thr Ile Ser Ala Asp Arg Ser Val Asn Thr Val Tyr
65 70 75 80

Leu Glu Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Ala Arg Val Ser Val Val Arg Lys Gly Gly Trp Phe Asp Pro
100 105 110

<210> 310

<211> 103

<212> PRT

<213> Homo sapiens

<400> 310

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

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

0239 W0 00 ORD sequence listing_ST25

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

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

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

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

Tyr Tyr Asn Ser Pro Tyr Thr
 100

<210> 311
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 311

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

Ser Leu Lys Ile Ser Cys Glu Ala Ser Gly Tyr Ile Phe Ala Asp His
 20 25 30

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

Gly Ile Ile Phe Pro Gly Asp Ser Asp Ile Arg Tyr Ser Pro Ser Phe
 50 55 60

Glu Gly Gln Val Thr Ile Ser Val Asp Arg Ser Val Ser Thr Ala Phe
 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Phe Cys

0239 WO 00 ORD sequence listing_ST25

85

90

95

Ala Arg Val Ala Val Val Arg Lys Gly Gly Trp Phe Asp Ser
100 105 110

<210> 312
<211> 103
<212> PRT
<213> Homo sapiens

<400> 312

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

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

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

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

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

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

Tyr Tyr Asn Ser Pro Tyr Thr
100

<210> 313
<211> 115
<212> PRT
<213> Homo sapiens

<400> 313

0239 WO 00 ORD sequence listing_ST25

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

Ser Leu Lys Ile Ser Cys Leu Ala Ser Gly Tyr Asp Phe Ala Ser Tyr
20 25 30

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

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

Glu Gly Arg Val Thr Met Ser Val Asp Thr Ser Thr Asn Thr Ala Tyr
65 70 75 80

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

Ala Arg Arg Asp Arg Asn Cys Ser Gly Thr Thr Cys Tyr Pro Arg Trp
100 105 110

Phe Asp Ser
115

<210> 314
<211> 103
<212> PRT
<213> Homo sapiens

<400> 314

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

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

0239 W0 00 ORD sequence listing_ST25

Gly Asn Ser Lys Asp Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

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

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

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

Tyr His Ser Thr Pro Leu Ser
 100

<210> 315
 <211> 19
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (9)..(9)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (12)..(12)
 <223> PHOSPHORYLATION

<400> 315

Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg
 1 5 10 15

Ser Arg Thr

<210> 316
 <211> 19

0239 W0 00 ORD sequence listing_ST25

<212> PRT
<213> synthetic

<400> 316

Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser	Pro	Gly	Thr	Pro	Gly	Ser	Arg
1				5					10					15	

Ser Arg Thr

<210> 317
<211> 18
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (9)..(9)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (11)..(11)
<223> PHOSPHORYLATION

<400> 317

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

Thr Arg

<210> 318
<211> 18
<212> PRT
<213> synthetic

<400> 318

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

Thr Arg

<210> 319
 <211> 18
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<400> 319

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

Pro Thr

<210> 320
 <211> 18
 <212> PRT
 <213> synthetic

<400> 320

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

Pro Thr

<210> 321
 <211> 68
 <212> PRT
 <213> synthetic

<400> 321

0239 W0 00 ORD sequence listing_ST25

Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly
1 5 10 15

Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr
20 25 30

Pro Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro
35 40 45

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

Met Pro Asp Leu
65

<210> 322
<211> 19
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (11)..(11)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (12)..(12)
<223> PHOSPHORYLATION

<400> 322

Glu Pro Gly Ser Glu Thr Ser Asp Ala Lys Ser Thr Pro Thr Ala Glu
1 5 10 15

Asp Val Thr

<210> 323

0239 WO 00 ORD sequence listing_ST25

<211> 20
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (12)..(12)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> PHOSPHORYLATION

<400> 323

Pro	Gly	Ser	Glu	Thr	Ser	Asp	Ala	Lys	Ser	Thr	Pro	Thr	Ala	Glu	Asp
1				5				10						15	

Val	Thr	Ala	Pro
			20

<210> 324
 <211> 18
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<400> 324

Ser	Glu	Thr	Ser	Asp	Ala	Lys	Ser	Thr	Pro	Thr	Ala	Glu	Asp	Val	Thr
1				5				10						15	

Ala	Pro
-----	-----

0239 WO 00 ORD sequence listing_ST25

<210> 325
 <211> 62
 <212> PRT
 <213> synthetic

<400> 325

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

Glu Pro Gly Ser Glu Thr Ser Asp Ala Lys Ser Thr Pro Thr Ala Glu
 20 25 30

Asp Val Thr Ala Pro Leu Val Asp Glu Gly Ala Pro Gly Lys Gln Ala
 35 40 45

Ala Ala Gln Pro His Thr Glu Ile Pro Glu Gly Thr Thr Ala
 50 55 60

<210> 326
 <211> 24
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> PHOSPHORYLATION

<400> 326

Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp
 1 5 10 15

0239 WO 00 ORD sequence listing_ST25

Ser Pro Gln Leu Ala Thr Leu Ala
20

<210> 327
<211> 53
<212> PRT
<213> synthetic

<400> 327

Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val Ser Gly Asp Thr Ser
1 5 10 15

Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val
20 25 30

Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu Val Ser Ala Ser Leu
35 40 45

Ala Lys Gln Gly Leu
50

<210> 328
<211> 25
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (11)..(11)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (18)..(18)
<223> PHOSPHORYLATION

<400> 328

Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro
1 5 10 15

0239 W0 00 ORD sequence listing_ST25

Ser Ser Ala Lys Ser Arg Leu Gln Thr
 20 25

<210> 329
 <211> 18
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<400> 329

Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys Ser Arg Leu
 1 5 10 15

Gln Thr

<210> 330
 <211> 21
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> PHOSPHORYLATION

<400> 330

Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
 1 5 10 15

0239 WO 00 ORD sequence listing_ST25

Ser Arg Leu Gln Thr
20

<210> 331
<211> 71
<212> PRT
<213> synthetic

<400> 331

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His
20 25 30

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

Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His
50 55 60

Val Pro Gly Gly Gly Asn Lys
65 70

<210> 332
<211> 16
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (6)..(6)
<223> PHOSPHORYLATION

<400> 332

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

0239 WO 00 ORD sequence listing_ST25

<210> 333
 <211> 18
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (8)..(8)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (12)..(12)
 <223> PHOSPHORYLATION

<400> 333

Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala
 1 5 10 15

Lys Ser

<210> 334
 <211> 26
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (19)..(19)
 <223> PHOSPHORYLATION

<400> 334

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser
 1 5 10 15

Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr
 20 25

<210> 335
 <211> 18
 <212> PRT
 <213> synthetic

<220>
 <221> Phosphorylation
 <222> (11)..(12)
 <223> Phosphorylation of serine at amino acid 11

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<400> 335

Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro
 1 5 10 15

Gly Thr

<210> 336
 <211> 19
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (12)..(12)
 <223> PHOSPHORYLATION

<400> 336

0239 WO 00 ORD sequence listing_ST25

Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro
1 5 10 15

Gly Thr Pro

<210> 337
<211> 22
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (11)..(11)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (15)..(15)
<223> PHOSPHORYLATION

<400> 337

Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro
1 5 10 15

Gly Thr Pro Gly Ser Arg
20

<210> 338
<211> 25
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (11)..(11)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (18)..(18)

<223> PHOSPHORYLATION

<400> 338

Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro
1 5 10 15

Gly Thr Pro Gly Ser Arg Ser Arg Thr
20 25

<210> 339

<211> 18

<212> PRT

<213> synthetic

<220>

<221> MOD_RES

<222> (11)..(11)

<223> PHOSPHORYLATION

<400> 339

Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly
1 5 10 15

Thr Pro

<210> 340

<211> 21

<212> PRT

<213> synthetic

<220>

<221> MOD_RES

<222> (11)..(11)

<223> PHOSPHORYLATION

<220>

<221> MOD_RES

<222> (14)..(14)

<223> PHOSPHORYLATION

0239 WO 00 ORD sequence listing_ST25

<400> 340

Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly
1 5 10 15

Thr Pro Gly Ser Arg
20

<210> 341
<211> 24
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (11)..(11)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (14)..(14)
<223> PHOSPHORYLATION

<400> 341

Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly
1 5 10 15

Thr Pro Gly Ser Arg Ser Arg Thr
20

<210> 342
<211> 20
<212> PRT
<213> synthetic

<400> 342

Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr
1 5 10 15

0239 WO 00 ORD sequence listing_ST25

Pro Gly Ser Arg
20

<210> 343
<211> 18
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (11)..(11)

<400> 343

Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly
1 5 10 15

Ser Arg

<210> 344
<211> 21
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (11)..(11)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (14)..(14)
<223> PHOSPHORYLATION

<400> 344

Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly
1 5 10 15

Ser Arg Ser Arg Thr
20

0239 WO 00 ORD sequence listing_ST25

<210> 345
 <211> 24
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> PHOSPHORYLATION

<400> 345

Gly	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser	Pro	Gly	Thr	Pro	Gly
1				5				10						15	

Ser	Arg	Ser	Arg	Thr	Pro	Ser	Leu
				20			

<210> 346
 <211> 26
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (19)..(19)
 <223> PHOSPHORYLATION

<400> 346

Gly	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser	Pro	Gly	Thr	Pro	Gly
1				5				10						15	

0239 WO 00 ORD sequence listing_ST25

Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr
 20 25

<210> 347
 <211> 18
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<400> 347

Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser
 1 5 10 15

Arg Thr

<210> 348
 <211> 21
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> PHOSPHORYLATION

<400> 348

Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser
 1 5 10 15

0239 WO 00 ORD sequence listing_ST25

Arg Thr Pro Ser Leu
20

<210> 349
<211> 23
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (11)..(11)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (16)..(16)
<223> PHOSPHORYLATION

<400> 349

Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser
1 5 10 15

Arg Thr Pro Ser Leu Pro Thr
20

<210> 350
<211> 25
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (11)..(11)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (18)..(18)
<223> PHOSPHORYLATION

<400> 350

0239 WO 00 ORD sequence listing_ST25

Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser
1 5 10 15

Arg Thr Pro Ser Leu Pro Thr Pro Pro
20 25

<210> 351
<211> 20
<212> PRT
<213> synthetic

<400> 351

Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser
1 5 10 15

Arg Thr Pro Ser
20

<210> 352
<211> 18
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (11)..(11)
<223> PHOSPHORYLATION

<400> 352

Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro
1 5 10 15

Ser Leu

<210> 353
<211> 20
<212> PRT

<213> synthetic

<220>

<221> MOD_RES

<222> (11)..(11)

<223> PHOSPHORYLATION

<220>

<221> MOD_RES

<222> (13)..(13)

<223> PHOSPHORYLATION

<400> 353

Ser	Ser	Pro	Gly	Ser	Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ser	Arg	Thr	Pro
1				5					10					15	

Ser	Leu	Pro	Thr
			20

<210> 354

<211> 22

<212> PRT

<213> synthetic

<220>

<221> MOD_RES

<222> (11)..(11)

<223> PHOSPHORYLATION

<220>

<221> MOD_RES

<222> (15)..(15)

<223> PHOSPHORYLATION

<400> 354

Ser	Ser	Pro	Gly	Ser	Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ser	Arg	Thr	Pro
1				5					10					15	

Ser	Leu	Pro	Thr	Pro	Pro
					20

0239 W0 00 ORD sequence listing_ST25

<210> 355
 <211> 24
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> PHOSPHORYLATION

<400> 355

Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro
 1 5 10 15

Ser Leu Pro Thr Pro Pro Thr Arg
 20

<210> 356
 <211> 20
 <212> PRT
 <213> synthetic

<400> 356

Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro
 1 5 10 15

Ser Leu Pro Thr
 20

<210> 357
 <211> 20
 <212> PRT
 <213> synthetic

0239 W0 00 ORD sequence listing_ST25

<220>

<221> MOD_RES

<222> (11)..(11)

<223> PHOSPHORYLATION

<220>

<221> MOD_RES

<222> (13)..(13)

<223> PHOSPHORYLATION

<400> 357

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

Pro Thr Pro Pro
20

<210> 358

<211> 22

<212> PRT

<213> synthetic

<220>

<221> MOD_RES

<222> (11)..(11)

<223> PHOSPHORYLATION

<220>

<221> MOD_RES

<222> (15)..(15)

<223> PHOSPHORYLATION

<400> 358

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

Pro Thr Pro Pro Thr Arg
20

<210> 359

<211> 25

0239 W0 00 ORD sequence listing_ST25

<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (11)..(11)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (18)..(18)
<223> PHOSPHORYLATION

<400> 359

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

Pro	Thr	Pro	Pro	Thr	Arg	Glu	Pro	Lys
			20					25

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<223> PHOSPHORYLATION

<400> 360

Ser	Pro	Arg	His	Leu	Ser	Asn	Val	Ser	Ser	Thr	Gly	Ser	Ile	Asp	Met
1				5					10					15	

Val Asp

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<222> (17)..(17)

<223> PHOSPHORYLATION

<400> 361

Ser	Pro	Arg	His	Leu	Ser	Asn	Val	Ser	Ser	Thr	Gly	Ser	Ile	Asp	Met
1				5				10						15	

Val	Asp	Ser	Pro	Gln	Leu	Ala	Thr	Leu	Ala
			20					25	

<210> 362

<211> 19

<212> PRT

<213> synthetic

<400> 362

Pro	Arg	His	Leu	Ser	Asn	Val	Ser	Ser	Thr	Gly	Ser	Ile	Asp	Met	Val
1			5				10						15		

Asp Ser Pro

<210> 363

<211> 18

<212> PRT

<213> synthetic

<220>

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<222> (11)..(11)

<223> PHOSPHORYLATION

0239 WO 00 ORD sequence listing_ST25

<400> 363

Arg	His	Leu	Ser	Asn	Val	Ser	Ser	Thr	Gly	Ser	Ile	Asp	Met	Val	Asp
1				5					10					15	

Ser Pro

<210> 364

<211> 20

<212> PRT

<213> synthetic

<400> 364

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

Leu	Ala	Thr	Leu
			20

<210> 365

<211> 18

<212> PRT

<213> synthetic

<220>

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<223> PHOSPHORYLATION

<400> 365

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

Leu Ala

<210> 366

0239 WO 00 ORD sequence listing_ST25

<211> 23
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 <223> PHOSPHORYLATION

<220>
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 <222> (16)..(16)
 <223> PHOSPHORYLATION

<400> 366

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

Leu Ala Asp Glu Val Ser Ala
 20

<210> 367
 <211> 68
 <212> PRT
 <213> synthetic

<400> 367

Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly
 1 5 10 15

Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr
 20 25 30

Pro Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro
 35 40 45

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

0239 W0 00 ORD sequence listing_ST25

Met Pro Asp Leu
65

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<220>
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<400> 368

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser Ser

<210> 369
<211> 22
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<220>
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<223> PHOSPHORYLATION

<400> 369

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ser	Arg
			20		

<210> 370
<211> 24

0239 WO 00 ORD sequence listing_ST25

<212> PRT
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<223> PHOSPHORYLATION

<220>
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<223> PHOSPHORYLATION

<400> 370

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ser	Arg	Leu	Gln
			20				

<210> 371
<211> 18
<212> PRT
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<223> PHOSPHORYLATION

<400> 371

Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro	Ser	Ser	Ala	Lys
1				5					10					15	

Ser	Arg
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<210> 372
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<223> PHOSPHORYLATION

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<223> PHOSPHORYLATION

<400> 372

Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro	Ser	Ser	Ala	Lys
1				5					10					15	

Ser	Arg	Leu	Gln
			20

<210> 373

<211> 18

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<220>

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<222> (11)..(11)

<223> PHOSPHORYLATION

<400> 373

Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro	Ser	Ser	Ala	Lys	Ser	Arg
1				5					10					15	

Leu	Gln
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<210> 374

<211> 19

<212> PRT

<213> synthetic

0239 WO 00 ORD sequence listing_ST25

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 <222> (12)..(12)
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<400> 374

Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro	Ser	Ser	Ala	Lys	Ser	Arg
1				5					10					15	

Leu Gln Thr

<210> 375
 <211> 20
 <212> PRT
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<400> 375

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1			5						10					15	

Leu Ser Lys Val
 20

<210> 376
 <211> 20
 <212> PRT
 <213> synthetic

<400> 376

Val	Tyr	Lys	Pro	Val	Asp	Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly	Ser
1				5					10					15	

0239 W0 00 ORD sequence listing_ST25

Leu Gly Asn Ile
20

<210> 377
<211> 20
<212> PRT
<213> synthetic

<400> 377

Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly
1 5 10 15

Gly Gln Val Glu
20

<210> 378
<211> 20
<212> PRT
<213> synthetic

<400> 378

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

Asp Phe Lys Asp
20

<210> 379
<211> 20
<212> PRT
<213> synthetic

<400> 379

Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile
1 5 10 15

Gly Ser Leu Asp
20

0239 WO 00 ORD sequence listing_ST25

<210> 380
 <211> 21
 <212> PRT
 <213> synthetic

<400> 380

Arg	Val	Gln	Ser	Lys	Ile	Gly	Ser	Leu	Asp	Asn	Ile	Thr	His	Val	Pro
1				5				10						15	

Gly	Gly	Gly	Asn	Lys
			20	

<210> 381
 <211> 20
 <212> PRT
 <213> synthetic

<400> 381

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

Glu	Pro	Gly	Ser
			20

<210> 382
 <211> 20
 <212> PRT
 <213> synthetic

<400> 382

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr	Ser	Asp	Ala	Lys
1				5				10						15	

Ser	Thr	Pro	Thr
			20

<210> 383
 <211> 18

0239 WO 00 ORD sequence listing_ST25

<212> PRT
<213> synthetic

<220>
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<400> 383

Glu Pro Gly Ser Glu Thr Ser Asp Ala Lys Ser Thr Pro Thr Ala Glu
1 5 10 15

Asp Val

<210> 384
<211> 20
<212> PRT
<213> synthetic

<400> 384

Glu Thr Ser Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala
1 5 10 15

Pro Leu Val Asp
20

<210> 385
<211> 20
<212> PRT
<213> synthetic

<400> 385

Ala Glu Asp Val Thr Ala Pro Leu Val Asp Glu Gly Ala Pro Gly Lys
1 5 10 15

Gln Ala Ala Ala
20

0239 WO 00 ORD sequence listing_ST25

<210> 386
 <211> 22
 <212> PRT
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<400> 386

Glu	Gly	Ala	Pro	Gly	Lys	Gln	Ala	Ala	Ala	Gln	Pro	His	Thr	Glu	Ile
1				5				10						15	

Pro	Glu	Gly	Thr	Thr	Ala
			20		

<210> 387
 <211> 20
 <212> PRT
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<400> 387

Gly	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser	Pro	Gly	Thr	Pro	Gly
1				5				10						15	

Ser	Arg	Ser	Arg
			20

<210> 388
 <211> 26
 <212> PRT
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<400> 388

0239 W0 00 ORD sequence listing_ST25

Ala Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser
1 5 10 15

Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr
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<210> 389
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<400> 389

Glu Ala Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser
1 5 10 15

Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr
20 25

<210> 390
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<220>
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0239 W0 00 ORD sequence listing_ST25

<222> (19)..(19)

<223> PHOSPHORYLATION

<400> 390

Glu	Pro	Ala	Lys	Ser	Gly	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ser	Arg	Thr
			20					25	

<210> 391

<211> 26

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<222> (19)..(19)

<223> PHOSPHORYLATION

<400> 391

Glu	Pro	Pro	Ala	Ser	Gly	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ser	Arg	Thr
			20					25	

<210> 392

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<212> PRT

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<222> (19)..(19)

<223> PHOSPHORYLATION

<400> 392

Glu	Pro	Pro	Lys	Ala	Gly	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ser	Arg	Thr
			20					25	

<210> 393

<211> 26

<212> PRT

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<223> PHOSPHORYLATION

<400> 393

Glu	Pro	Pro	Lys	Ser	Ala	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ser	Arg	Thr
			20					25	

<210> 394

<211> 26

<212> PRT

<213> synthetic

0239 WO 00 ORD sequence listing_ST25

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<400> 394

Glu	Pro	Pro	Lys	Ser	Gly	Ala	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ser	Arg	Thr
			20					25	

<210> 395
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<400> 395

Glu	Pro	Pro	Lys	Ser	Gly	Asp	Ala	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ser	Arg	Thr
			20					25	

<210> 396

0239 WO 00 ORD sequence listing_ST25

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<220>
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<400> 396

Glu	Pro	Pro	Lys	Ser	Gly	Asp	Arg	Ala	Gly	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ser	Arg	Thr
			20					25	

<210> 397
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 <212> PRT
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<400> 397

Glu	Pro	Pro	Lys	Ser	Gly	Asp	Arg	Ser	Ala	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ser	Arg	Thr
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<400> 398

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Ala Ser Ser Pro Gly Ser
 1 5 10 15

Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr
 20 25

<210> 399
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 <212> PRT
 <213> synthetic

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<400> 399

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ala Ser Pro Gly Ser

<210>	400
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<223> PHOSPHORYLATION
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$\langle 400 \rangle$ 400

Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr
 20 25

<210>	401
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0239 WO 00 ORD sequence listing_ST25

<400> 401

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Ala Gly Ser
1 5 10 15

Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr
20 25

<210> 402

<211> 26

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<222> (19)..(19)

<223> PHOSPHORYLATION

<400> 402

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Ala Ser
1 5 10 15

Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr
20 25

<210> 403

<211> 26

<212> PRT

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<222> (19)..(19)

<223> PHOSPHORYLATION

0239 W0 00 ORD sequence listing_ST25

<400> 403

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ala
1 5 10 15

Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr
20 25

<210> 404

<211> 26

<212> PRT

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<222> (16)..(16)

<223> PHOSPHORYLATION

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<222> (19)..(19)

<223> PHOSPHORYLATION

<400> 404

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser
1 5 10 15

Ala Gly Thr Pro Gly Ser Arg Ser Arg Thr
20 25

<210> 405

<211> 26

<212> PRT

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<223> PHOSPHORYLATION

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0239 W0 00 ORD sequence listing_ST25

<221> MOD_RES
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 <223> PHOSPHORYLATION

<400> 405

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser
 1 5 10 15

Pro Ala Thr Pro Gly Ser Arg Ser Arg Thr
 20 25

<210> 406
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<220>
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 <223> PHOSPHORYLATION

<400> 406

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser
 1 5 10 15

Pro Gly Ala Pro Gly Ser Arg Ser Arg Thr
 20 25

<210> 407
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0239 W0 00 ORD sequence listing_ST25

<222> (19)..(19)

<223> PHOSPHORYLATION

<400> 407

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser
1 5 10 15

Pro Gly Thr Ala Gly Ser Arg Ser Arg Thr
20 25

<210> 408

<211> 26

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<223> PHOSPHORYLATION

<400> 408

Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser
1 5 10 15

Pro Gly Thr Pro Ala Ser Arg Ser Arg Thr
20 25

<210> 409

<211> 26

<212> PRT

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<222> (19)..(19)

<223> PHOSPHORYLATION

<400> 409

Glu	Pro	Pro	Lys	Ser	Gly	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ala	Arg	Ser	Arg	Thr
			20					25	

<210> 410

<211> 26

<212> PRT

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<223> PHOSPHORYLATION

<400> 410

Glu	Pro	Pro	Lys	Ser	Gly	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ser	Ala	Ser	Arg	Thr
			20					25	

<210> 411

<211> 26

<212> PRT

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0239 W0 00 ORD sequence listing_ST25

<220>

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<222> (16)..(16)

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<222> (19)..(19)

<223> PHOSPHORYLATION

<400> 411

Glu	Pro	Pro	Lys	Ser	Gly	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ala	Arg	Thr
			20					25	

<210> 412

<211> 26

<212> PRT

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<222> (16)..(16)

<223> PHOSPHORYLATION

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<222> (19)..(19)

<223> PHOSPHORYLATION

<400> 412

Glu	Pro	Pro	Lys	Ser	Gly	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ser	Ala	Thr
			20					25	

<210> 413

0239 WO 00 ORD sequence listing_ST25

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<220>
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 <222> (16)..(16)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (19)..(19)
 <223> PHOSPHORYLATION

<400> 413

Glu	Pro	Pro	Lys	Ser	Gly	Asp	Arg	Ser	Gly	Tyr	Ser	Ser	Pro	Gly	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Gly	Ser	Arg	Ser	Arg	Ala
			20					25	

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 <212> PRT
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<400> 414

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

Ser	Pro	Gln	Leu	Ala	Thr	Leu	Ala
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<210> 415
 <211> 24
 <212> PRT
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<220>
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 <222> (11)..(11)
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<220>
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 <222> (17)..(17)
 <223> PHOSPHORYLATION

<400> 415

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

Ser Pro Gln Leu Ala Thr Leu Ala
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<210> 416
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<220>
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<220>
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<400> 416

Arg His Ala Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp

1 **5** **10** **15**

Ser Pro Gln Leu Ala Thr Leu Ala
20

<210>	417
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<212>	PRT
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<400> 417

Arg His Leu Ala Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp
1 5 10 15

Ser Pro Gln Leu Ala Thr Leu Ala
20

<210>	418
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0239 WO 00 ORD sequence listing_ST25

<400> 418

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

Ser	Pro	Gln	Leu	Ala	Thr	Leu	Ala
			20				

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<223> PHOSPHORYLATION

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Arg	His	Leu	Ser	Asn	Ala	Ser	Ser	Thr	Gly	Ser	Ile	Asp	Met	Val	Asp
1				5					10					15	

Ser	Pro	Gln	Leu	Ala	Thr	Leu	Ala
			20				

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0239 WO 00 ORD sequence listing_ST25

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<223> PHOSPHORYLATION

<400> 420

Arg	His	Leu	Ser	Asn	Val	Ala	Ser	Thr	Gly	Ser	Ile	Asp	Met	Val	Asp
1				5					10					15	

Ser	Pro	Gln	Leu	Ala	Thr	Leu	Ala
			20				

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<223> PHOSPHORYLATION

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Arg	His	Leu	Ser	Asn	Val	Ser	Ala	Thr	Gly	Ser	Ile	Asp	Met	Val	Asp
1				5					10					15	

Ser	Pro	Gln	Leu	Ala	Thr	Leu	Ala
			20				

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0239 WO 00 ORD sequence listing_ST25

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<400> 422

Arg His Leu Ser Asn Val Ser Ser Ala Gly Ser Ile Asp Met Val Asp
 1 5 10 15

Ser Pro Gln Leu Ala Thr Leu Ala
 20

<210> 423
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 <212> PRT
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<400> 423

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

Ser Pro Gln Leu Ala Thr Leu Ala
 20

<210> 424
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<223> PHOSPHORYLATION

<400> 424

Arg His Leu Ser Asn Val Ser Ser Thr Gly Ala Ile Asp Met Val Asp
1 5 10 15

Ser Pro Gln Leu Ala Thr Leu Ala
20

<210> 425

<211> 24

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<223> PHOSPHORYLATION

<400> 425

Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser Ala Asp Met Val Asp
1 5 10 15

Ser Pro Gln Leu Ala Thr Leu Ala
20

<210> 426

<211> 24

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0239 WO 00 ORD sequence listing_ST25

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<400> 426

Arg	His	Leu	Ser	Asn	Val	Ser	Ser	Thr	Gly	Ser	Ile	Ala	Met	Val	Asp
1				5					10					15	

Ser	Pro	Gln	Leu	Ala	Thr	Leu	Ala
			20				

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<400> 427

Arg	His	Leu	Ser	Asn	Val	Ser	Ser	Thr	Gly	Ser	Ile	Asp	Ala	Val	Asp
1				5					10					15	

Ser	Pro	Gln	Leu	Ala	Thr	Leu	Ala
			20				

0239 WO 00 ORD sequence listing_ST25

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Arg	His	Leu	Ser	Asn	Val	Ser	Ser	Thr	Gly	Ser	Ile	Asp	Met	Ala	Asp
1				5					10					15	

Ser	Pro	Gln	Leu	Ala	Thr	Leu	Ala
			20				

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<400> 429

Arg	His	Leu	Ser	Asn	Val	Ser	Ser	Thr	Gly	Ser	Ile	Asp	Met	Val	Ala
1				5					10					15	

0239 W0 00 ORD sequence listing_ST25

Ser Pro Gln Leu Ala Thr Leu Ala
20

<210> 430
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<220>
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<400> 430

Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp
1 5 10 15

Ala Pro Gln Leu Ala Thr Leu Ala
20

<210> 431
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<400> 431

Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp
1 5 10 15

Ser Ala Gln Leu Ala Thr Leu Ala

20

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<400> 432

Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp
 1 5 10 15

Ser Pro Ala Leu Ala Thr Leu Ala
 20

<210> 433
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<400> 433

Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp

1 5 10 15

Ser Pro Gln Ala Ala Thr Leu Ala
20

<210>	434
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<400> 434

Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp
1 5 10 15

Ser Pro Gln Leu Ala Ala Leu Ala
20

<210>	435
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0239 WO 00 ORD sequence listing_ST25

<400> 435

Arg	His	Leu	Ser	Asn	Val	Ser	Ser	Thr	Gly	Ser	Ile	Asp	Met	Val	Asp
1				5					10					15	

Ser	Pro	Gln	Leu	Ala	Thr	Ala	Ala
			20				

<210> 436

<211> 25

<212> PRT

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<400> 436

Arg	Ala	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ser	Arg	Leu	Gln	Thr
			20					25

<210> 437

<211> 25

<212> PRT

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0239 W0 00 ORD sequence listing_ST25

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<223> PHOSPHORYLATION

<400> 437

Arg	Glu	Ala	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ser	Arg	Leu	Gln	Thr
			20				25	

<210> 438

<211> 25

<212> PRT

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<222> (18)..(18)

<223> PHOSPHORYLATION

<400> 438

Arg	Glu	Pro	Ala	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ser	Arg	Leu	Gln	Thr
			20				25	

<210> 439

<211> 25

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0239 WO 00 ORD sequence listing_ST25

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<400> 439

Arg Glu Pro Lys Ala Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro
 1 5 10 15

Pro Ser Ala Lys Ser Arg Leu Gln Thr
 20 25

<210> 440
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<400> 440

Arg Glu Pro Lys Lys Ala Ala Val Val Arg Thr Pro Pro Lys Ser Pro
 1 5 10 15

Ser Ser Ala Lys Ser Arg Leu Gln Thr
 20 25

<210> 441
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<223> PHOSPHORYLATION

<400> 441

Arg	Glu	Pro	Lys	Lys	Val	Ala	Ala	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ser	Arg	Leu	Gln	Thr
			20					25

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<223> PHOSPHORYLATION

<400> 442

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Ala	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ser	Arg	Leu	Gln	Thr
			20					25

0239 WO 00 ORD sequence listing_ST25

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<400> 443

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Ala	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ser	Arg	Leu	Gln	Thr
			20				25	

<210> 444
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 <212> PRT
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<220>
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<400> 444

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Ala	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ser	Arg	Leu	Gln	Thr
			20				25	

0239 WO 00 ORD sequence listing_ST25

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<400> 445

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Ala	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ser	Arg	Leu	Gln	Thr
			20					25

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 <222> (18)..(18)
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<400> 446

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Ala
1				5					10					15	

0239 W0 00 ORD sequence listing_ST25

Ser Ser Ala Lys Ser Arg Leu Gln Thr
20 25

<210> 447
<211> 25
<212> PRT
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<400> 447

Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Ala Ser Pro
1 5 10 15

Ser Ser Ala Lys Ser Arg Leu Gln Thr
20 25

<210> 448
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<223> PHOSPHORYLATION

<400> 448

0239 W0 00 ORD sequence listing_ST25

Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ala Pro
1 5 10 15

Ser Ser Ala Lys Ser Arg Leu Gln Thr
20 25

<210> 449
<211> 25
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<223> PHOSPHORYLATION

<400> 449

Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Ala
1 5 10 15

Ser Ser Ala Lys Ser Arg Leu Gln Thr
20 25

<210> 450
<211> 25
<212> PRT
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<220>
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<222> (18)..(18)

<223> PHOSPHORYLATION

<400> 450

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ala	Ser	Ala	Lys	Ser	Arg	Leu	Gln	Thr
			20					25

<210> 451

<211> 25

<212> PRT

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<220>

<221> MOD_RES

<222> (11)..(11)

<223> PHOSPHORYLATION

<400> 451

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ala	Ala	Lys	Ser	Arg	Leu	Gln	Thr
			20					25

<210> 452

<211> 25

<212> PRT

<213> synthetic

<220>

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<223> PHOSPHORYLATION

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<222> (18)..(18)

<223> PHOSPHORYLATION

0239 W0 00 ORD sequence listing_ST25

<400> 452

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Ala	Ser	Arg	Leu	Gln	Thr
			20					25

<210> 453

<211> 25

<212> PRT

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<220>

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<222> (11)..(11)

<223> PHOSPHORYLATION

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<221> MOD_RES

<222> (18)..(18)

<223> PHOSPHORYLATION

<400> 453

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ala	Arg	Leu	Gln	Thr
			20					25

<210> 454

<211> 25

<212> PRT

<213> synthetic

<220>

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<222> (11)..(11)

<223> PHOSPHORYLATION

0239 W0 00 ORD sequence listing_ST25

<220>

<221> MOD_RES

<222> (18)..(18)

<223> PHOSPHORYLATION

<400> 454

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ser	Ala	Leu	Gln	Thr
			20					25

<210> 455

<211> 25

<212> PRT

<213> synthetic

<220>

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<222> (11)..(11)

<223> PHOSPHORYLATION

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<221> MOD_RES

<222> (18)..(18)

<223> PHOSPHORYLATION

<400> 455

Arg	Glu	Pro	Lys	Lys	Val	Ala	Val	Val	Arg	Thr	Pro	Pro	Lys	Ser	Pro
1				5					10					15	

Ser	Ser	Ala	Lys	Ser	Arg	Ala	Gln	Thr
			20					25

<210> 456

<211> 25

<212> PRT

<213> synthetic

<220>

0239 WO 00 ORD sequence listing_ST25

<221> MOD_RES
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 <223> PHOSPHORYLATION

<220>
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 <222> (18)..(18)
 <223> PHOSPHORYLATION

<400> 456

Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro
 1 5 10 15

Ser Ser Ala Lys Ser Arg Leu Ala Thr
 20 25

<210> 457
 <211> 25
 <212> PRT
 <213> synthetic

<220>
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 <223> PHOSPHORYLATION

<220>
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 <222> (18)..(18)
 <223> PHOSPHORYLATION

<400> 457

Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro
 1 5 10 15

Ser Ser Ala Lys Ser Arg Leu Gln Ala
 20 25

<210> 458
 <211> 25
 <212> PRT

<213> synthetic

<400> 458

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 459

<211> 25

<212> PRT

<213> synthetic

<400> 459

Ala	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 460

<211> 25

<212> PRT

<213> synthetic

<400> 460

His	Ala	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 461

<211> 25

<212> PRT

<213> synthetic

<400> 461

0239 W0 00 ORD sequence listing_ST25

His Val Ala Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly
20 25

<210> 462
<211> 25
<212> PRT
<213> synthetic

<400> 462

His Val Pro Ala Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly
20 25

<210> 463
<211> 25
<212> PRT
<213> synthetic

<400> 463

His Val Pro Gly Ala Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly
20 25

<210> 464
<211> 25
<212> PRT
<213> synthetic

<400> 464

His Val Pro Gly Gly Ala Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

0239 W0 00 ORD sequence listing_ST25

Leu Ser Lys Val Thr Ser Lys Cys Gly
20 25

<210> 465
<211> 25
<212> PRT
<213> synthetic

<400> 465

His Val Pro Gly Gly Gly Ala Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly
20 25

<210> 466
<211> 25
<212> PRT
<213> synthetic

<400> 466

His Val Pro Gly Gly Gly Ser Ala Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly
20 25

<210> 467
<211> 25
<212> PRT
<213> synthetic

<400> 467

His Val Pro Gly Gly Gly Ser Val Ala Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly

20

25

<210> 468
 <211> 25
 <212> PRT
 <213> synthetic
 <400> 468

His Val Pro Gly Gly Gly Ser Val Gln Ala Val Tyr Lys Pro Val Asp
 1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly
 20 25

<210> 469
 <211> 25
 <212> PRT
 <213> synthetic

<400> 469

His Val Pro Gly Gly Gly Ser Val Gln Ile Ala Tyr Lys Pro Val Asp
 1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly
 20 25

<210> 470
 <211> 25
 <212> PRT
 <213> synthetic

<400> 470

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Ala Lys Pro Val Asp
 1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly
 20 25

0239 W0 00 ORD sequence listing_ST25

<210> 471
 <211> 25
 <212> PRT
 <213> synthetic

<400> 471

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Ala	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 472
 <211> 25
 <212> PRT
 <213> synthetic

<400> 472

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Ala	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 473
 <211> 25
 <212> PRT
 <213> synthetic

<400> 473

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Ala	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 474
 <211> 25
 <212> PRT

<213> synthetic

<400> 474

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Ala
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 475

<211> 25

<212> PRT

<213> synthetic

<400> 475

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Ala	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 476

<211> 25

<212> PRT

<213> synthetic

<400> 476

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ala	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 477

<211> 25

<212> PRT

<213> synthetic

<400> 477

0239 W0 00 ORD sequence listing_ST25

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Ala Val Thr Ser Lys Cys Gly
20 25

<210> 478
<211> 25
<212> PRT
<213> synthetic

<400> 478

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Ala Thr Ser Lys Cys Gly
20 25

<210> 479
<211> 25
<212> PRT
<213> synthetic

<400> 479

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Ala Ser Lys Cys Gly
20 25

<210> 480
<211> 25
<212> PRT
<213> synthetic

<400> 480

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

0239 W0 00 ORD sequence listing_ST25

Leu Ser Lys Val Thr Ala Lys Cys Gly
20 25

<210> 481
<211> 25
<212> PRT
<213> synthetic

<400> 481

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Thr Ser Ala Cys Gly
20 25

<210> 482
<211> 25
<212> PRT
<213> synthetic

<400> 482

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Thr Ser Lys Ala Gly
20 25

<210> 483
<211> 25
<212> PRT
<213> synthetic

<400> 483

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Ala

20

25

<210> 484
 <211> 20
 <212> PRT
 <213> synthetic

<400> 484

Ala Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser Asp Ala Lys
 1 5 10 15

Ser Thr Pro Thr
 20

<210> 485
 <211> 20
 <212> PRT
 <213> synthetic

<400> 485

Thr Ala Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser Asp Ala Lys
 1 5 10 15

Ser Thr Pro Thr
 20

<210> 486
 <211> 20
 <212> PRT
 <213> synthetic

<400> 486

Thr Glu Ala Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser Asp Ala Lys
 1 5 10 15

Ser Thr Pro Thr
 20

0239 WO 00 ORD sequence listing_ST25

<210> 487
 <211> 20
 <212> PRT
 <213> synthetic

<400> 487

Thr	Glu	Asp	Ala	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr	Ser	Asp	Ala	Lys
1				5					10					15	

Ser	Thr	Pro	Thr
			20

<210> 488
 <211> 20
 <212> PRT
 <213> synthetic

<400> 488

Thr	Glu	Asp	Gly	Ala	Glu	Glu	Pro	Gly	Ser	Glu	Thr	Ser	Asp	Ala	Lys
1				5					10					15	

Ser	Thr	Pro	Thr
			20

<210> 489
 <211> 20
 <212> PRT
 <213> synthetic

<400> 489

Thr	Glu	Asp	Gly	Ser	Ala	Glu	Pro	Gly	Ser	Glu	Thr	Ser	Asp	Ala	Lys
1				5					10					15	

Ser	Thr	Pro	Thr
			20

<210> 490
 <211> 20
 <212> PRT

0239 W0 00 ORD sequence listing_ST25

<213> synthetic

<400> 490

Thr	Glu	Asp	Gly	Ser	Glu	Ala	Pro	Gly	Ser	Glu	Thr	Ser	Asp	Ala	Lys
1				5				10						15	

Ser	Thr	Pro	Thr
			20

<210> 491

<211> 20

<212> PRT

<213> synthetic

<400> 491

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Ala	Gly	Ser	Glu	Thr	Ser	Asp	Ala	Lys
1				5				10						15	

Ser	Thr	Pro	Thr
			20

<210> 492

<211> 20

<212> PRT

<213> synthetic

<400> 492

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Ala	Ser	Glu	Thr	Ser	Asp	Ala	Lys
1				5				10						15	

Ser	Thr	Pro	Thr
			20

<210> 493

<211> 20

<212> PRT

<213> synthetic

<400> 493

0239 W0 00 ORD sequence listing_ST25

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ala	Glu	Thr	Ser	Asp	Ala	Lys
1				5					10					15	

Ser	Thr	Pro	Thr
			20

<210> 494
 <211> 20
 <212> PRT
 <213> synthetic

<400> 494

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Ala	Thr	Ser	Asp	Ala	Lys
1				5					10					15	

Ser	Thr	Pro	Thr
			20

<210> 495
 <211> 20
 <212> PRT
 <213> synthetic

<400> 495

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Ala	Ser	Asp	Ala	Lys
1				5					10					15	

Ser	Thr	Pro	Thr
			20

<210> 496
 <211> 20
 <212> PRT
 <213> synthetic

<400> 496

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr	Ala	Asp	Ala	Lys
1				5					10					15	

0239 W0 00 ORD sequence listing_ST25

Ser Thr Pro Thr
20

<210> 497
<211> 20
<212> PRT
<213> synthetic

<400> 497

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr	Ser	Ala	Ala	Lys
1				5				10						15	

Ser Thr Pro Thr
20

<210> 498
<211> 20
<212> PRT
<213> synthetic

<400> 498

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr	Ser	Asp	Ala	Ala
1				5				10						15	

Ser Thr Pro Thr
20

<210> 499
<211> 20
<212> PRT
<213> synthetic

<400> 499

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr	Ser	Asp	Ala	Lys
1				5				10						15	

Ala Thr Pro Thr

20

<210> 500
 <211> 20
 <212> PRT
 <213> synthetic

<400> 500

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr	Ser	Asp	Ala	Lys
1				5				10						15	

Ser	Ala	Pro	Thr
			20

<210> 501
 <211> 20
 <212> PRT
 <213> synthetic

<400> 501

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr	Ser	Asp	Ala	Lys
1				5				10						15	

Ser	Thr	Ala	Thr
			20

<210> 502
 <211> 20
 <212> PRT
 <213> synthetic

<400> 502

Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr	Ser	Asp	Ala	Lys
1				5				10						15	

Ser	Thr	Pro	Ala
			20

0239 WO 00 ORD sequence listing_ST25

<210> 503
 <211> 25
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (7)..(7)
 <223> PHOSPHORYLATION

<400> 503

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 504
 <211> 25
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (12)..(12)
 <223> PHOSPHORYLATION

<400> 504

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 505
 <211> 25
 <212> PRT
 <213> synthetic

0239 W0 00 ORD sequence listing_ST25

<220>

<221> MOD_RES

<222> (18)..(18)

<223> PHOSPHORYLATION

<400> 505

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 506

<211> 25

<212> PRT

<213> synthetic

<220>

<221> MOD_RES

<222> (21)..(21)

<223> PHOSPHORYLATION

<400> 506

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 507

<211> 25

<212> PRT

<213> synthetic

<220>

<221> MOD_RES

<222> (22)..(22)

<223> PHOSPHORYLATION

<400> 507

0239 W0 00 ORD sequence listing_ST25

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly
20 25

<210> 508
<211> 25
<212> PRT
<213> synthetic

<220>
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<222> (7)..(7)
<223> PHOSPHORYLATION

<220>
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<222> (12)..(12)
<223> PHOSPHORYLATION

<400> 508

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly
20 25

<210> 509
<211> 25
<212> PRT
<213> synthetic

<220>
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<223> PHOSPHORYLATION

<220>
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0239 WO 00 ORD sequence listing_ST25

<222> (18)..(18)

<223> PHOSPHORYLATION

<400> 509

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 510

<211> 25

<212> PRT

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<220>

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<222> (7)..(7)

<223> PHOSPHORYLATION

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<222> (21)..(21)

<223> PHOSPHORYLATION

<400> 510

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 511

<211> 25

<212> PRT

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<220>

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<222> (7)..(7)

<223> PHOSPHORYLATION

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<222> (22)..(22)

<223> PHOSPHORYLATION

<400> 511

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 512

<211> 25

<212> PRT

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<222> (12)..(12)

<223> PHOSPHORYLATION

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<222> (18)..(18)

<223> PHOSPHORYLATION

<400> 512

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 513

<211> 25

<212> PRT

<213> synthetic

0239 WO 00 ORD sequence listing_ST25

<220>
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 <222> (12)..(12)
 <223> PHOSPHORYLATION

<220>
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 <222> (21)..(21)
 <223> PHOSPHORYLATION

<400> 513

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 514
 <211> 25
 <212> PRT
 <213> synthetic

<220>
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 <222> (12)..(12)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (22)..(22)
 <223> PHOSPHORYLATION

<400> 514

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 515

0239 W0 00 ORD sequence listing_ST25

<211> 25
 <212> PRT
 <213> synthetic

<220>
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 <222> (18)..(18)
 <223> PHOSPHORYLATION

<220>
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 <222> (21)..(21)
 <223> PHOSPHORYLATION

<400> 515

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
			20					25

<210> 516
 <211> 25
 <212> PRT
 <213> synthetic

<220>
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 <222> (18)..(18)
 <223> PHOSPHORYLATION

<220>
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 <222> (22)..(22)
 <223> PHOSPHORYLATION

<400> 516

His	Val	Pro	Gly	Gly	Gly	Ser	Val	Gln	Ile	Val	Tyr	Lys	Pro	Val	Asp
1				5					10					15	

Leu	Ser	Lys	Val	Thr	Ser	Lys	Cys	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

<210> 517
 <211> 25
 <212> PRT
 <213> synthetic

<220>
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 <222> (21)..(21)
 <223> PHOSPHORYLATION

<220>
 <221> MOD_RES
 <222> (22)..(22)
 <223> PHOSPHORYLATION

<400> 517

His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
 1 5 10 15

Leu Ser Lys Val Thr Ser Lys Cys Gly
 20 25

<210> 518
 <211> 24
 <212> PRT
 <213> synthetic

<400> 518

Leu Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr
 1 5 10 15

Ser Asp Ala Lys Ser Thr Pro Thr
 20

<210> 519
 <211> 24
 <212> PRT
 <213> synthetic

0239 WO 00 ORD sequence listing_ST25

<220>
 <221> MOD_RES
 <222> (24)..(24)
 <223> PHOSPHORYLATION

<400> 519

Leu	Gln	Thr	Pro	Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr
1				5				10					15		

Ser	Asp	Ala	Lys	Ser	Thr	Pro	Thr
			20				

<210> 520
 <211> 24
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (16)..(16)
 <223> PHOSPHORYLATION

<400> 520

Leu	Gln	Thr	Pro	Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr
1				5				10					15		

Ser	Asp	Ala	Lys	Ser	Thr	Pro	Thr
			20				

<210> 521
 <211> 24
 <212> PRT
 <213> synthetic

<220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> PHOSPHORYLATION

0239 WO 00 ORD sequence listing_ST25

<400> 521

Leu Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr
1 5 10 15

Ser Asp Ala Lys Ser Thr Pro Thr
20

<210> 522

<211> 24

<212> PRT

<213> synthetic

<220>

<221> MOD_RES

<222> (9)..(9)

<223> PHOSPHORYLATION

<400> 522

Leu Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr
1 5 10 15

Ser Asp Ala Lys Ser Thr Pro Thr
20

<210> 523

<211> 24

<212> PRT

<213> synthetic

<220>

<221> MOD_RES

<222> (5)..(5)

<223> PHOSPHORYLATION

<400> 523

Leu Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr
1 5 10 15

0239 W0 00 ORD sequence listing_ST25

Ser Asp Ala Lys Ser Thr Pro Thr
20

<210> 524
<211> 24
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (21)..(21)
<223> PHOSPHORYLATION

<400> 524

Leu Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr
1 5 10 15

Ser Asp Ala Lys Ser Thr Pro Thr
20

<210> 525
<211> 24
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (22)..(22)
<223> PHOSPHORYLATION

<400> 525

Leu Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr
1 5 10 15

Ser Asp Ala Lys Ser Thr Pro Thr
20

<210> 526

0239 WO 00 ORD sequence listing_ST25

<211> 24
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (17)..(17)
<223> PHOSPHORYLATION

<400> 526

Leu Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr
1 5 10 15

Ser Asp Ala Lys Ser Thr Pro Thr
20

<210> 527
<211> 24
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (14)..(14)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (17)..(17)
<223> PHOSPHORYLATION

<400> 527

Leu Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr
1 5 10 15

Ser Asp Ala Lys Ser Thr Pro Thr
20

<210> 528
<211> 24

0239 WO 00 ORD sequence listing_ST25

<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (14)..(14)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (16)..(16)
<223> PHOSPHORYLATION

<400> 528

Leu	Gln	Thr	Pro	Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr
1				5					10					15	

Ser	Asp	Ala	Lys	Ser	Thr	Pro	Thr
			20				

<210> 529
<211> 24
<212> PRT
<213> synthetic

<220>
<221> MOD_RES
<222> (16)..(16)
<223> PHOSPHORYLATION

<220>
<221> MOD_RES
<222> (17)..(17)
<223> PHOSPHORYLATION

<400> 529

Leu	Gln	Thr	Pro	Thr	Glu	Asp	Gly	Ser	Glu	Glu	Pro	Gly	Ser	Glu	Thr
1				5					10					15	

Ser	Asp	Ala	Lys	Ser	Thr	Pro	Thr
			20				

0239 W0 00 ORD sequence listing_ST25

<210> 530
 <211> 23
 <212> DNA
 <213> synthetic

<400> 530
 tctccgccgg tgagtctcga ggc 23

<210> 531
 <211> 26
 <212> DNA
 <213> synthetic

<400> 531
 tgtccctgga tgcaggctac tctagg 26

<210> 532
 <211> 24
 <212> DNA
 <213> synthetic

<400> 532
 agagtagcct gcatccaggg acag 24

<210> 533
 <211> 30
 <212> DNA
 <213> synthetic

<400> 533
 tctagatcat ttaccaggag agtgggagag 30

<210> 534
 <211> 34
 <212> DNA
 <213> synthetic

<400> 534
 tctcctggta aatgatctag agtttaaacc gctg 34

<210> 535

0239 W0 00 ORD sequence listing_ST25

<211> 25
 <212> PRT
 <213> synthetic

<400> 535

Ala	Thr	Gly	Gly	Cys	Cys	Cys	Ala	Cys	Thr	Ala	Cys	Gly	Thr	Gly	Ala
1				5					10					15	

Ala	Cys	Cys	Ala	Thr	Cys	Ala	Cys	Cys
			20					25