

SEQUENCE LISTING

<110> GILEAD SCIENCES, INC.

<120> FLT3L-FC FUSION PROTEINS AND METHODS OF USE

<130> 1290.PF

<140>

<141>

<150> 62/866,584

<151> 2019-06-25

<160> 110

<170> PatentIn version 3.5

<210> 1

<211> 369

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1

Thr	Gln	Asp	Cys	Ser	Phe	Gln	His	Ser	Pro	Ile	Ser	Ser	Asp	Phe	Ala
1				5					10					15	

Val	Lys	Ile	Arg	Glu	Leu	Ser	Asp	Tyr	Leu	Leu	Gln	Asp	Tyr	Pro	Val
			20					25					30		

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

Arg	Leu	Val	Leu	Ala	Gln	Arg	Trp	Met	Glu	Arg	Leu	Lys	Thr	Val	Ala
	50					55					60				

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

Phe	Val	Thr	Lys	Cys	Ala	Phe	Gln	Pro	Pro	Pro	Ser	Cys	Leu	Arg	Phe
				85					90					95	

Val	Gln	Thr	Asn	Ile	Ser	Arg	Leu	Leu	Gln	Glu	Thr	Ser	Glu	Gln	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

100

105

110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
 115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
 130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Gly Gly Pro
 145 150 155 160

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
 165 170 175

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
 180 185 190

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
 195 200 205

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
 210 215 220

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
 225 230 235 240

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
 245 250 255

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
 260 265 270

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
 275 280 285

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 290 295 300

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 305 310 315 320

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
325 330 335

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
340 345 350

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
355 360 365

Lys

<210> 2

<211> 364

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Gly Gly Pro Ser Val Phe Leu Phe
145 150 155 160

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
165 170 175

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

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
195 200 205

Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
210 215 220

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
225 230 235 240

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
245 250 255

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
260 265 270

Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
275 280 285

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
290 295 300

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
305 310 315 320

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
325 330 335

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
340 345 350

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
355 360

<210> 3
<211> 386
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 3
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Glu Ser Lys
145 150 155 160

Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Glu Gly Gly
165 170 175

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
180 185 190

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu
195 200 205

Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
210 215 220

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg
225 230 235 240

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
245 250 255

Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu
260 265 270

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
275 280 285

Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu
290 295 300

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
305 310 315 320

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
325 330 335

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp

340

345

350

Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His
355 360 365

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu
370 375 380

Gly Lys
385

<210> 4

<211> 386

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 4

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Glu Ser Lys
145 150 155 160

Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
165 170 175

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
180 185 190

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu
195 200 205

Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
210 215 220

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg
225 230 235 240

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
245 250 255

Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu
260 265 270

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
275 280 285

Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu
290 295 300

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
305 310 315 320

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
325 330 335

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp
340 345 350

Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His
355 360 365

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu
370 375 380

Gly Lys
385

<210> 5

<211> 369

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 5

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ala Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu

100	105	110
Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ala Arg Cys Leu		
115	120	125
Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser		
130	135	140
Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Gly Gly Pro		
145	150	155
Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser		
165	170	175
Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp		
180	185	190
Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn		
195	200	205
Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val		
210	215	220
Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu		
225	230	235
Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys		
245	250	255
Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr		
260	265	270
Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr		
275	280	285
Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu		
290	295	300
Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu		
305	310	315
		320

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
325 330 335

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
340 345 350

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
355 360 365

Lys

<210> 6

<211> 381

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 6

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Glu Ser Lys Tyr Gly Pro Pro Cys
145 150 155 160

Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu
165 170 175

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
180 185 190

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
195 200 205

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
210 215 220

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

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
245 250 255

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

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
275 280 285

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
290 295 300

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
305 310 315 320

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
325 330 335

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
340 345 350

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
355 360 365

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
370 375 380

<210> 7

<211> 359

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 7

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
145 150 155 160

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
165 170 175

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
180 185 190

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
195 200 205

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
210 215 220

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
225 230 235 240

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
245 250 255

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
260 265 270

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

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
290 295 300

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
305 310 315 320

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser

325

330

335

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 340 345 350

Leu Ser Leu Ser Pro Gly Lys
 355

<210> 8

<211> 376

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 8

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
 1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
 20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
 50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
 85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
 100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
 115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala
145 150 155 160

Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
165 170 175

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
180 185 190

Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val
195 200 205

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
210 215 220

Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
225 230 235 240

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly
245 250 255

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

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr
275 280 285

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
290 295 300

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
305 310 315 320

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
325 330 335

Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe
340 345 350

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
355 360 365

Ser Leu Ser Leu Ser Leu Gly Lys
370 375

<210> 9

<211> 369

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 9

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser

130

135

140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Gly Gly Pro
 145 150 155 160

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Tyr Ile Thr
 165 170 175

Arg Glu Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
 180 185 190

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
 195 200 205

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
 210 215 220

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
 225 230 235 240

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
 245 250 255

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
 260 265 270

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
 275 280 285

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 290 295 300

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 305 310 315 320

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
 325 330 335

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 340 345 350

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
355 360 365

Lys

<210> 10

<211> 364

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 10

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Gly Gly Pro Ser Val Phe Leu Phe
145 150 155 160

Pro Pro Lys Pro Lys Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu Val
165 170 175

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

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
195 200 205

Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
210 215 220

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
225 230 235 240

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
245 250 255

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
260 265 270

Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
275 280 285

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
290 295 300

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
305 310 315 320

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
325 330 335

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
340 345 350

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
355 360

<210> 11

<211> 386

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 11

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Glu Ser Lys
145 150 155 160

Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Glu Gly Gly
165 170 175

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Tyr Ile
180 185 190

Thr Arg Glu Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu
195 200 205

Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
210 215 220

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg
225 230 235 240

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
245 250 255

Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu
260 265 270

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
275 280 285

Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu
290 295 300

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
305 310 315 320

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
325 330 335

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp
340 345 350

Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His
355 360 365

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu

370

375

380

Gly Lys
385

<210> 12

<211> 386

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 12

Thr	Gln	Asp	Cys	Ser	Phe	Gln	His	Ser	Pro	Ile	Ser	Ser	Asp	Phe	Ala
1				5					10					15	

Val	Lys	Ile	Arg	Glu	Leu	Ser	Asp	Tyr	Leu	Leu	Gln	Asp	Tyr	Pro	Val
			20					25					30		

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

Arg	Leu	Val	Leu	Ala	Gln	Arg	Trp	Met	Glu	Arg	Leu	Lys	Thr	Val	Ala
	50					55					60				

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

Phe	Val	Thr	Lys	Cys	Ala	Phe	Gln	Pro	Pro	Pro	Ser	Cys	Leu	Arg	Phe
				85					90					95	

Val	Gln	Thr	Asn	Ile	Ser	Arg	Leu	Leu	Gln	Glu	Thr	Ser	Glu	Gln	Leu
			100					105					110		

Val	Ala	Leu	Lys	Pro	Trp	Ile	Thr	Arg	Gln	Asn	Phe	Ser	Arg	Cys	Leu
		115					120					125			

Glu	Leu	Gln	Cys	Gln	Pro	Asp	Ser	Ser	Thr	Leu	Pro	Pro	Pro	Trp	Ser
	130					135					140				

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Glu Ser Lys
145 150 155 160

Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
165 170 175

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Tyr Ile
180 185 190

Thr Arg Glu Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu
195 200 205

Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
210 215 220

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg
225 230 235 240

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
245 250 255

Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu
260 265 270

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
275 280 285

Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu
290 295 300

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
305 310 315 320

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
325 330 335

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp
340 345 350

Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His
355 360 365

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu
370 375 380

Gly Lys
385

<210> 13
<211> 369
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 13
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ala Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ala Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser

130

135

140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Gly Gly Pro
 145 150 155 160

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Tyr Ile Thr
 165 170 175

Arg Glu Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
 180 185 190

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
 195 200 205

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
 210 215 220

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
 225 230 235 240

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
 245 250 255

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
 260 265 270

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
 275 280 285

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 290 295 300

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 305 310 315 320

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
 325 330 335

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 340 345 350

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
355 360 365

Lys

<210> 14
<211> 381
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 14
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Glu Ser Lys Tyr Gly Pro Pro Cys
145 150 155 160

Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu
165 170 175

Phe Pro Pro Lys Pro Lys Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu
180 185 190

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
195 200 205

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
210 215 220

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

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
245 250 255

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

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
275 280 285

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
290 295 300

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
305 310 315 320

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
325 330 335

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
340 345 350

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
355 360 365

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
370 375 380

<210> 15

<211> 359

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 15

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
145 150 155 160

Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu Val Thr Cys Val Val Val
165 170 175

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
180 185 190

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
195 200 205

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
210 215 220

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
225 230 235 240

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
245 250 255

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
260 265 270

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

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
290 295 300

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
305 310 315 320

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
325 330 335

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
340 345 350

Leu Ser Leu Ser Pro Gly Lys

<210> 16

<211> 376

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 16

Thr	Gln	Asp	Cys	Ser	Phe	Gln	His	Ser	Pro	Ile	Ser	Ser	Asp	Phe	Ala
1				5					10					15	

Val	Lys	Ile	Arg	Glu	Leu	Ser	Asp	Tyr	Leu	Leu	Gln	Asp	Tyr	Pro	Val
			20					25					30		

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

Arg	Leu	Val	Leu	Ala	Gln	Arg	Trp	Met	Glu	Arg	Leu	Lys	Thr	Val	Ala
	50					55					60				

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

Phe	Val	Thr	Lys	Cys	Ala	Phe	Gln	Pro	Pro	Pro	Ser	Cys	Leu	Arg	Phe
				85					90					95	

Val	Gln	Thr	Asn	Ile	Ser	Arg	Leu	Leu	Gln	Glu	Thr	Ser	Glu	Gln	Leu
			100					105					110		

Val	Ala	Leu	Lys	Pro	Trp	Ile	Thr	Arg	Gln	Asn	Phe	Ser	Arg	Cys	Leu
		115					120					125			

Glu	Leu	Gln	Cys	Gln	Pro	Asp	Ser	Ser	Thr	Leu	Pro	Pro	Pro	Trp	Ser
	130					135					140				

Pro	Arg	Pro	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala
145					150					155					160

Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
165 170 175

Lys Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu Val Thr Cys Val Val
180 185 190

Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val
195 200 205

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
210 215 220

Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
225 230 235 240

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly
245 250 255

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

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr
275 280 285

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
290 295 300

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
305 310 315 320

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
325 330 335

Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe
340 345 350

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
355 360 365

Ser Leu Ser Leu Ser Leu Gly Lys
370 375

<210> 17

<211> 376

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 17

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ala Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ala Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala
145 150 155 160

Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro

165

170

175

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 180 185 190

Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val
 195 200 205

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 210 215 220

Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 225 230 235 240

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly
 245 250 255

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

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr
 275 280 285

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
 290 295 300

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 305 310 315 320

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 325 330 335

Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe
 340 345 350

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 355 360 365

Ser Leu Ser Leu Ser Leu Gly Lys
 370 375

<210> 18
<211> 376
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 18
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ala Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ala Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala
145 150 155 160

Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
165 170 175

Lys Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu Val Thr Cys Val Val
180 185 190

Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val
195 200 205

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
210 215 220

Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
225 230 235 240

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly
245 250 255

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

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr
275 280 285

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
290 295 300

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
305 310 315 320

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
325 330 335

Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe
340 345 350

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
355 360 365

Ser Leu Ser Leu Ser Leu Gly Lys
370 375

<210> 19
<211> 389
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 19
Thr Pro Asp Cys Tyr Phe Ser His Ser Pro Ile Ser Ser Asn Phe Lys
1 5 10 15

Val Lys Phe Arg Glu Leu Thr Asp His Leu Leu Lys Asp Tyr Pro Val
20 25 30

Thr Val Ala Val Asn Leu Gln Asp Glu Lys His Cys Lys Ala Leu Trp
35 40 45

Ser Leu Phe Leu Ala Gln Arg Trp Ile Glu Gln Leu Lys Thr Val Ala
50 55 60

Gly Ser Lys Met Gln Thr Leu Leu Glu Asp Val Asn Thr Glu Ile His
65 70 75 80

Phe Val Thr Ser Cys Thr Phe Gln Pro Leu Pro Glu Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser His Leu Leu Lys Asp Thr Cys Thr Gln Leu
100 105 110

Leu Ala Leu Lys Pro Cys Ile Gly Lys Ala Cys Gln Asn Phe Ser Arg
115 120 125

Cys Leu Glu Val Gln Cys Gln Pro Asp Ser Ser Thr Leu Leu Pro Pro
130 135 140

Arg Ser Pro Ile Ala Leu Glu Ala Thr Glu Leu Pro Glu Pro Arg Gly
145 150 155 160

Pro Thr Ile Lys Pro Cys Pro Pro Cys Lys Cys Pro Ala Pro Asn Ala
165 170 175

Ala Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Lys Ile Lys Asp Val
180 185 190

Leu Met Ile Ser Leu Ser Pro Ile Val Thr Cys Val Val Val Asp Val
195 200 205

Ser Glu Asp Asp Pro Asp Val Gln Ile Ser Trp Phe Val Asn Asn Val
210 215 220

Glu Val His Thr Ala Gln Thr Gln Thr His Arg Glu Asp Tyr Asn Ser
225 230 235 240

Thr Leu Arg Val Val Ser Ala Leu Pro Ile Gln His Gln Asp Trp Met
245 250 255

Ser Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Lys Asp Leu Gly Ala
260 265 270

Pro Ile Glu Arg Thr Ile Ser Lys Pro Lys Gly Ser Val Arg Ala Pro
275 280 285

Gln Val Tyr Val Leu Pro Pro Pro Glu Glu Glu Met Thr Lys Lys Gln
290 295 300

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

Val Glu Trp Thr Asn Asn Gly Lys Thr Glu Leu Asn Tyr Lys Asn Thr
325 330 335

Glu Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Met Tyr Ser Lys Leu
340 345 350

Arg Val Glu Lys Lys Asn Trp Val Glu Arg Asn Ser Tyr Ser Cys Ser
355 360 365

Val Val His Glu Gly Leu His Asn His His Thr Thr Lys Ser Phe Ser
370 375 380

Arg Thr Pro Gly Lys

385

<210> 20

<211> 389

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 20

Thr Pro Asp Cys Tyr Phe Ser His Ser Pro Ile Ser Ser Asn Phe Lys
1 5 10 15

Val Lys Phe Arg Glu Leu Thr Asp His Leu Leu Lys Asp Tyr Pro Val
20 25 30

Thr Val Ala Val Asn Leu Gln Asp Glu Lys His Cys Lys Ala Leu Trp
35 40 45

Ser Leu Phe Leu Ala Gln Arg Trp Ile Glu Gln Leu Lys Thr Val Ala
50 55 60

Gly Ser Lys Met Gln Thr Leu Leu Glu Asp Val Asn Thr Glu Ile His
65 70 75 80

Phe Val Thr Ser Cys Thr Phe Gln Pro Leu Pro Glu Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser His Leu Leu Lys Asp Thr Ser Thr Gln Leu
100 105 110

Leu Ala Leu Lys Pro Cys Ile Gly Lys Ala Cys Gln Asn Phe Ser Arg
115 120 125

Cys Leu Glu Val Gln Cys Gln Pro Asp Ser Ser Thr Leu Leu Pro Pro
130 135 140

Arg Ser Pro Ile Ala Leu Glu Ala Thr Glu Leu Pro Glu Pro Arg Gly
145 150 155 160

Pro Thr Ile Lys Pro Cys Pro Pro Cys Lys Cys Pro Ala Pro Asn Ala
165 170 175

Ala Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Lys Ile Lys Asp Val
180 185 190

Leu Met Ile Ser Leu Ser Pro Ile Val Thr Cys Val Val Val Asp Val
195 200 205

Ser Glu Asp Asp Pro Asp Val Gln Ile Ser Trp Phe Val Asn Asn Val
210 215 220

Glu Val His Thr Ala Gln Thr Gln Thr His Arg Glu Asp Tyr Asn Ser
225 230 235 240

Thr Leu Arg Val Val Ser Ala Leu Pro Ile Gln His Gln Asp Trp Met
245 250 255

Ser Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Lys Asp Leu Gly Ala
260 265 270

Pro Ile Glu Arg Thr Ile Ser Lys Pro Lys Gly Ser Val Arg Ala Pro
275 280 285

Gln Val Tyr Val Leu Pro Pro Pro Glu Glu Glu Met Thr Lys Lys Gln
290 295 300

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

Val Glu Trp Thr Asn Asn Gly Lys Thr Glu Leu Asn Tyr Lys Asn Thr
325 330 335

Glu Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Met Tyr Ser Lys Leu
340 345 350

Arg Val Glu Lys Lys Asn Trp Val Glu Arg Asn Ser Tyr Ser Cys Ser
355 360 365

Val Val His Glu Gly Leu His Asn His His Thr Thr Lys Ser Phe Ser
370 375 380

Arg Thr Pro Gly Lys
385

<210> 21
<211> 369
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 21
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Gly Gly Pro

145		150		155		160									
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
			165						170					175	
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp
			180					185					190		
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn
		195					200					205			
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val
	210					215					220				
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu
225					230					235					240
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys
				245					250					255	
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr
			260					265					270		
Lys	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Ser
		275					280					285			
Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu
	290					295					300				
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Val	Pro	Val	Leu
305					310					315					320
Asp	Ser	Asp	Gly	Ser	Phe	Arg	Leu	Ala	Ser	Tyr	Leu	Thr	Val	Asp	Lys
				325					330					335	
Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu
			340					345					350		
Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly
		355					360					365			

Lys

<210> 22

<211> 369

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 22

Thr Gln Asp Cys Ser Phe Gln Tyr Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Gly Gly Pro
145 150 155 160

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
165 170 175

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
180 185 190

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
195 200 205

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
210 215 220

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
225 230 235 240

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
245 250 255

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
260 265 270

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
275 280 285

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
290 295 300

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
305 310 315 320

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
325 330 335

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
340 345 350

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
355 360 365

Lys

<210> 23

<211> 369

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 23

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Glu Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Gly Gly Pro
145 150 155 160

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
165 170 175

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
180 185 190

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
195 200 205

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
210 215 220

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
225 230 235 240

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
245 250 255

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
260 265 270

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
275 280 285

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
290 295 300

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
305 310 315 320

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
325 330 335

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
340 345 350

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
355 360 365

Lys

<210> 24
<211> 369
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 24
Thr Gln Asp Cys Ser Phe Gln Tyr Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Glu Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Gly Gly Pro
145 150 155 160

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
165 170 175

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
180 185 190

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
195 200 205

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
210 215 220

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
225 230 235 240

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
245 250 255

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
260 265 270

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
275 280 285

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
290 295 300

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
305 310 315 320

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
325 330 335

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
340 345 350

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
355 360 365

Lys

<210> 25
<211> 381
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 25
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ala Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ala Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Glu Ser Lys Tyr Gly Pro Pro Cys
145 150 155 160

Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu

165

170

175

Phe Pro Pro Lys Pro Lys Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu
 180 185 190

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
 195 200 205

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
 210 215 220

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

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
 245 250 255

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

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
 275 280 285

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
 290 295 300

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
 305 310 315 320

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
 325 330 335

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
 340 345 350

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
 355 360 365

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
 370 375 380

<210> 26
<211> 381
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 26
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ala Ala Ala Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Glu Ser Lys Tyr Gly Pro Pro Cys
145 150 155 160

Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu
165 170 175

Phe Pro Pro Lys Pro Lys Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu
180 185 190

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
195 200 205

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
210 215 220

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

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
245 250 255

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

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
275 280 285

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
290 295 300

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
305 310 315 320

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
325 330 335

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
340 345 350

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
355 360 365

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
370 375 380

<210> 27
<211> 381
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 27
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ala Ala Ala Leu Pro Pro Pro Trp Ala
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Glu Ala Lys Tyr Gly Pro Pro Cys
145 150 155 160

Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu
165 170 175

Phe Pro Pro Lys Pro Lys Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu
180 185 190

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
195 200 205

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
210 215 220

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

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
245 250 255

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

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
275 280 285

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
290 295 300

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
305 310 315 320

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
325 330 335

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
340 345 350

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
355 360 365

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
370 375 380

<211> 1107
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 28
acacaggatt gcagcttcca gcacagcccc atcagcagcg atttcgccgt gaagatcaga 60
gagctgagcg actacctgct gcaggactac cctgtgaccg tggccagcaa tctgcaggac 120
gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg 180
aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac 240
ttcgtgacca agtgcgctt ccagcctcct ccacctgccc tgagattcgt gcagaccaac 300
atcagcagac tgctgcaaga gacaagcgag cagctggtgg ccctgaagcc ttggatcacc 360
agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct 420
ccgccttggg gtcctagacc tctggaagcc acagctccca ccgctcctca aggcggaccg 480
tcagtcttcc tcttcccccc aaaacccaag gacaccctca tgatctcccg gaccctgag 540
gtcacatgcg tgggtggtgga cgtgagccac gaagaccctg aggtcaagtt caactggtac 600
gtggacggcg tggaggtgca taatgccaag acaaagccgc gggaggagca gtacaacagc 660
acgtaccgtg tggtcagcgt cctcaccgtc ctgcaccagg actggctgaa tggcaaggag 720
tacaagtgca aggtctccaa caaagccctc ccagccccc tcgagaaaac catctccaaa 780
gccaaagggc agccccgaga accacaggtg tacaccctgc ccccatcccg ggaggagatg 840
accaagaacc aggtcagcct gacctgcctg gtcaaaggct tctatcccag cgacatcgcc 900
gtggagtggg agagcaatgg gcagccggag aacaactaca agaccacgcc tcccgctgctg 960
gactccgacg gctccttctt cctctacagc aagctcaccg tggacaagag caggtggcag 1020
caggggaacg tcttctcatg ctccgtgatg catgaggctc tgcacaacca ctacacgcag 1080
aagagcctct ccctgtctcc gggtaaa 1107

<210> 29
<211> 1107
<212> DNA
<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 29

accaggact gtccttcca gcactcccct atctcttccg acttcgccgt gaagatcaga	60
gagctgtccg actacctgct gcaggactac cctgtgaccg tggccagcaa tctgcaggac	120
gaagaactgt gtgggtggcct gtggcgactg gtgttggctc agagatggat ggaacggctg	180
aaaaccgtgg ccggctctaa gatgcagggc ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccacctgcc tgagattcgt gcagaccaac	300
atctcccggc tgctgcaaga gacatccgag cagctggtgg ctctgaagcc ctggatcacc	360
cggcagaact tctctcgggtg tctggaactg cagtgtcagc ccgactcttc taccctgcct	420
ccaccttgga gcccagacc tttggaagct accgctcaa cagctcctca aggcggccct	480
tccgtgtttc tgttccctcc aaagcctaag gacaccctga tgatctctcg gaccctgaa	540
gtgacctgcg tgggtggtgga tgtgtctcac gaggatcccg aagtgaagtt caattggtac	600
gtggacggcg tggaagtgca caacgccaag accaagccta gagaggaaca gtacaactcc	660
acctacagag tgggtgtccgt gctgaccgtg ctgcaccagg attggctgaa cggcaaagag	720
tacaagtgca aggtgtccaa caaggccctg cctgctccta tcgaaaagac catctccaag	780
gccaagggcc agcctagggg accccagggtt tacaccctgc cacctagccg ggaagagatg	840
accaagaacc aggtgtccct gacctgcctg gtcaagggtc tctaccctc tgatatcgcc	900
gtggaatggg agagcaatgg ccagcctgag aacaactaca agaccacacc tcctgtgctg	960
gactccgacg gctcattctt cctgtactcc aagctgacag tggacaagtc cagatggcag	1020
cagggcaacg tgttctcctg ctccgtgatg cacgaggctc tgcacaacca ctacaccag	1080
aagtcctgt ctctgtcccc tggcaaa	1107

<210> 30

<211> 1092

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 30
acacaggatt gcagcttcca gcacagcccc atcagcagcg atttcgccgt gaagatcaga 60
gagctgagcg actacctgct gcaggactac cctgtgaccg tggccagcaa tctgcaggac 120
gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg 180
aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac 240
ttcgtgacca agtgcgcctt ccagcctcct ccacacctgcc tgagattcgt gcagaccaac 300
atcagcagac tgctgcaaga gacaagcgag cagctgggtg ccctgaagcc ttggatcacc 360
agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct 420
ccgccttggg gtcctagacc tctggaagcc acagctgggg gaccgtcagt cttcctcttc 480
cccccaaac ccaaggacac cctcatgac tcccggaccc ctgaggtcac atgcgtgggtg 540
gtggacgtga gccacgaaga ccctgaggtc aagttcaact ggtacgtgga cggcgtggag 600
gtgcataatg ccaagacaaa gccgcgggag gagcagtaca acagcacgta ccgtgtggtc 660
agcgtcctca ccgtcctgca ccaggactgg ctgaatggca aggagtacaa gtgcaaggtc 720
tccaacaaag ccctcccagc ccccatcgag aaaaccatct ccaaagccaa agggcagccc 780
cgagaaccac aggtgtacac cctgccccca tcccgggagg agatgaccaa gaaccaggtc 840
agcctgacct gcctgggtcaa aggcttctat cccagcgaca tcgccgtgga gtgggagagc 900
aatgggcagc cggagaacaa ctacaagacc acgcctcccg tgctggactc cgacggctcc 960
ttcttctct acagcaagct caccgtggac aagagcaggt ggcagcaggg gaacgtcttc 1020
tcatgctccg tgatgcatga ggctctgcac aaccactaca cgcagaagag cctctccctg 1080
tctccgggta aa 1092

<210> 31

<211> 1092

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 31

accaggact gtccttcca gcactcccct atctcttccg acttcgccgt gaagatcaga 60

gagctgtccg actacctgct gcaggactat cctgtgaccg tggccagcaa cctgcaggat	120
gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccggctccaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccatcctgcc tgagattcgt gcagaccaac	300
atctcccggc tgctgcaaga gacatctgag cagctgggtg ccctgaagcc ttggatcacc	360
cggcagaact tctctcgggtg cctggaactg cagtgtcagc ctgattcttc taccctgcct	420
ccaccttggg gccctagacc tttggaagct acagctggcg gcccaagcgt gttcctgttt	480
cctccaaagc ctaaggacac cctgatgatc tctcggaccc ctgaagtgac ctgcgtggtg	540
gtggatgtgt ctcacgagga tcccgaagtg aagttcaatt ggtacgtgga cggcgtggaa	600
gtgcacaacg ccaagaccaa gcctagagag gaacagtaca actccaccta cagagtgggtg	660
tccgtgctga ccgtgctgca ccaggattgg ctgaacggca aagagtacaa gtgcaagggtg	720
tccaacaagg ccctgcctgc tcctatcgaa aagaccatct ccaaggccaa gggccagcct	780
agggaacctc aggtttacac cctgccacct agccgggaag agatgaccaa aaaccaggtg	840
tccctgacct gcctgggtcaa gggcttctac ccatccgata tcgccgtgga atgggagtct	900
aacggccagc ctgagaacaa ctacaagacc acacctcctg tgctggactc cgacggctca	960
ttcttcctgt actccaagct gacagtggac aagtctcgggt ggcagcaggg caacgtgttc	1020
tcctgttctg tgatgcacga ggccctgcac aaccactaca ccagaagtc cctgtctctg	1080
tcccctggca aa	1092

<210> 32

<211> 1158

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 32

acacaggatt gcagcttcca gcacagcccc atcagcagcg atttcgccgt gaagatcaga	60
gagctgagcg actacctgct gcaggactac cctgtgaccg tggccagcaa tctgcaggac	120
gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180

aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt ccagcctcct ccatactgcc tgagattcgt gcagaccaac	300
atcagcagac tgctgcaaga gacaagcgag cagctggtgg ccctgaagcc ttggatcacc	360
agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct	420
ccgccttgga gtcctagacc tctggaagcc acagctccca ccgctcctca agaatactaa	480
tacggccctc cctgccctcc ttgcccagcc cctgaatttg agggcggacc ctccgtgttc	540
ctgttcccc caaagcccaa ggacaccctg atgatcagcc ggacccccga agtgacctgc	600
gtggtggtgg atgtgtccca ggaagatccc gaggtgcagt tcaattggta cgtggacggc	660
gtggaagtgc acaacgcaa gaccaagccc agagaggaac agttcaacag cacctaccgg	720
gtggtgtccg tgctgacagt gctgcaccag gactggctga acggcaaaga gtacaagtgc	780
aaggtgtcca acaagggcct gccagctcc atcgagaaaa ccatacagcaa ggccaagggc	840
cagccccgcg aaccccaggt gtacacactg cctccaagcc aggaagagat gaccaagaac	900
caggtgtccc tgacctgtct cgtgaaaggc ttctaccct ccgatatcgc cgtggaatgg	960
gagagcaacg gccagcccga gaacaactac aagaccaccc cccctgtgct ggacagcgac	1020
ggctcattct tcctgtacag cagactgacc gtggacaaga gccggtggca ggaaggcaac	1080
gtgttcagct gcagcgtgat gcacgaggcc ctgcacaacc actacacca gaagtccttg	1140
tctctgtccc tgggcaaa	1158

<210> 33

<211> 1158

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 33

acccaggact gtccttcca gcactcccct atctcttccg acttcgccgt gaagatcaga	60
gagctgtccg actacctgct gcaggactat cctgtgaccg tggccagcaa cctgcaggat	120
gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccggctcaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240

ttcgtgacca agtgcgcctt tcagcctcct ccatacctgcc tgagattcgt gcagaccaac	300
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tacggccctc cttgtcctcc atgtcctgct ccagaatttg aaggcggccc aagcgtgttc	540
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gtgggtgggtg atgtgtctca agaggacccc gaggtgcagt tcaattggta cgtggacggc	660
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gtgggtgtccg tgctgaccgt gctgcaccag gattgggtga acggcaaaga gtacaagtgc	780
aaggtgtcca acaagggcct gcctagctcc atcgaaaaga ccatactcaa ggccaagggc	840
cagccaagag aacctcaggt gtacacactg cctccaagcc aagaggaaat gaccaagaac	900
caggtgtccc tgacctgcct ggtcaagggc ttctacccat ccgatatcgc cgtggaatgg	960
gagtctaacg gccagcctga gaacaactac aagaccacac ctctgtgct ggactccgac	1020
ggctccttct ttctgtactc tcgcctgacc gtggacaagt ctagatggca agagggaac	1080
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tctctgtccc tgggcaaa	1158

<210> 34

<211> 1158

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 34

acacaggatt gcagcttcca gcacagcccc atcagcagcg atttcgccgt gaagatcaga	60
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gaagaactgt gtgggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180
aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt ccagcctcct ccatacctgcc tgagattcgt gcagaccaac	300

atcagcagac tgctgcaaga gacaagcgag cagctggtgg ccctgaagcc ttggtacc	360
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ccgccttgga gtcctagacc tctggaagcc acagctccca ccgctcctca agagtctaag	480
tacggccctc cttgtcctcc atgtcctgct ccagaagctg ctggcggccc ttccgtgttt	540
ctgttccctc caaagcctaa ggacaccctg atgatctctc ggaccctga agtgacctgc	600
gtggtggtgg atgtgtccca agaggatccc gaggtgcagt tcaattggta cgtggacggc	660
gtggaagtgc acaacgcaa gaccaagcct agagaggaac agttcaactc cacctacaga	720
gtggtgtccg tgctgaccgt gctgcaccag gattggctga acggcaaaga gtacaagtgc	780
aaggtgtcca acaaggcct gccttcagc atcgaaaaga ccattctcaa ggccaagggc	840
cagcctaggg aaccccaggt ttacaccctg cctccaagcc aagaggaaat gaccaagaac	900
cagggtgtccc tgacctgcct ggtcaagggc ttctaccctt ccgatatcgc cgtggaatgg	960
gagagcaatg gccagcctga gaacaactac aagaccacac ctctgtgct ggactccgac	1020
ggctccttct ttctgtactc ccgcctgacc gtggacaagt ccagatggca agagggaac	1080
gtgttctcct gtcctgtgat gcacgaggcc ctgcacaatc actacacca gaagtccttg	1140
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<210> 35

<211> 1158

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 35

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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccggctcaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccattcctgcc tgagattcgt gcagaccaac	300
atctcccggc tgctgcaaga gacatctgag cagctggtgg ccctgaagcc ttggtacc	360

cggcagaact tctctcggtg cctggaactg cagtgtcagc ctgattcttc taccctgcct	420
ccaccttgga gccctagacc tttggaggct acagctccta ccgctcctca agagtctaag	480
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ctgtttcctc caaagcctaa ggacaccctg atgatctctc ggaccctga agtgacctgc	600
gtggtggtgg atgtgtctca agaggacccc gaggtgcagt tcaattggta cgtggacggc	660
gtggaagtgc acaacgcaa gaccaagcct agagaggaac agttcaactc cacctacaga	720
gtggtgtccg tgctgaccgt gctgcaccag gattggctga acggcaaaga gtacaagtgc	780
aaggtgtcca acaaggcct gcctagctcc atcgaaaaga ccattctcaa ggccaagggc	840
cagccaagag aacctcaggt gtacacactg cctccaagcc aagaggaaat gaccaagaac	900
caggtgtccc tgacctgcct ggtcaagggc ttctacccat ccgatatcgc cgtggaatgg	960
gagtctaacg gccagcctga gaacaactac aagaccacac ctctgtgct ggactccgac	1020
ggctccttct ttctgtactc tcgcctgacc gtggacaagt ctagatggca agagggaac	1080
gtgttctcct gctctgtgat gcacgaggcc ctgcacaacc actacacca gaagtccttg	1140
tctctgtccc tgggcaaa	1158

<210> 36

<211> 1185

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 36

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tcctctggcc tgtctggcac ccaggactgt tccttcagc actcccctat ctccagcgac	120
ttcgccgtga agatcagaga gctgtccgac tatctgctgc aggactaccc tgtgaccgtg	180
gccagcaatc tgcaggacga agaactgtgt ggtggcctgt ggcgactggg gttggctcag	240
agatggatgg aacggctgaa aaccgtggcc ggctctaaga tgcagggcct gctggaaaga	300
gtgaacaccg agatccactt cgtgaccaag tgcgcctttc agcctcctcc atcctgcctg	360
agattcgtgc agaccaatat cgcccggctg ctgcaagaga catccgagca gctggtggct	420

ctgaagccct ggatcaccag acagaacttc gcccgggtgtc tggaactgca gtgtcagcct	480
gacagctcta ccctgcctcc accttgagac cctagacctc tggaagctac cgctccaacc	540
gctcctcaag ggggaccgtc agtcttcctc ttcccccaa aaccaagga caccctcatg	600
atctcccga cccctgaggt cacatgcgtg gtggtggacg tgagccacga agaccctgag	660
gtcaagttca actggtacgt ggacggcgtg gaggtgcata atgccaagac aaagccgcgg	720
gaggagcagt acaacagcac gtaccgtgtg gtcagcgtcc tcaccgtcct gcaccaggac	780
tggctgaatg gcaaggagta caagtgcaag gtctccaaca aagccctccc agccccatc	840
gagaaaacca tctccaaagc caaagggcag ccccgagaac cacaggtgta caccctgccc	900
ccatccccggg aggagatgac caagaaccag gtcagcctga cctgcctggg caaaggcttc	960
tatcccagcg acatcgccgt ggagtgggag agcaatgggc agccggagaa caactacaag	1020
accacgcctc ccgtgctgga ctccgacggc tccttcttcc tctacagcaa gctcaccgtg	1080
gacaagagca ggtggcagca ggggaacgtc ttctcatgct ccgtgatgca tgaggctctg	1140
cacaaccact acacgcagaa gagcctctcc ctgtctccgg gtaaa	1185

<210> 37

<211> 1107

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 37

accaggact gtccttcca gcactcccct atctcttccg acttcgccgt gaagatcaga	60
gagctgtccg actacctgct gcaggactat cctgtgaccg tggccagcaa cctgcaggat	120
gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccggctccaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccacctgccc tgagattcgt gcagaccaat	300
atgccccggc tgctgcaaga gacatctgag cagctgggtgg ccctgaagcc ttggatcacc	360
agacagaact tcgccccggtg cctggaactg cagtgtcagc ctgattcttc taccctgcct	420
ccaccttggg gccctagacc tttggaggct acagctccta ctgctcctca aggcggccca	480

agcgttttcc tgtttcctcc aaagcctaag gacaccctga tgatctctcg gaccctgaa	540
gtgacctgcg tgggtggtgga tgtgtctcac gaggatcccc aagtgaagtt caattggtac	600
gtggacggcg tggaagtgca caacgccaag accaagccta gagaggaaca gtacaactcc	660
acctacagag tgggtgtccgt gctgaccgtg ctgcaccagg attggctgaa cggcaaagag	720
tacaagtgca aggtgtccaa caaggccctg cctgctccta tcgaaaagac catctccaag	780
gccaagggcc agcctagggga acctcaggtt tacaccctgc cacctagccg ggaagagatg	840
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gtggaatggg agtctaacgg ccagcctgag aacaactaca agaccacacc tcctgtgctg	960
gactccgacg gctcattctt cctgtactcc aagctgacag tggacaagtc tcggtggcag	1020
cagggcaacg tgttctcctg ttctgtgatg cacgaggccc tgcacaacca ctacaccag	1080
aagtcctgtg ctctgtcccc tggcaaa	1107

<210> 38

<211> 1143

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 38

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gagctgagcg actacctgct gcaggactac cctgtgaccg tggccagcaa tctgcaggac	120
gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180
aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt ccagcctcct ccatacctgcc tgagattcgt gcagaccaac	300
atcagcagac tgctgcaaga gacaagcgag cagctggtgg ccctgaagcc ttgcatcacc	360
agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct	420
ccgccttggg gtcctagacc tctggaagcc acagctgagt ctaagtacgg ccctccttgt	480
cctccatgtc ctgctccaga agctgctggc ggcccttccg tgtttctgtt ccctccaaag	540
cctaaggaca ccctgatgat ctctcggacc cctgaagtga cctgcgtggt ggtggatgtg	600

tccaagagg atcccagagt gcagttcaat tggtacgtgg acggcgtgga agtgcacaac	660
gccaagacca agcctagaga ggaacagttc aactccacct acagagtggg gtccgtgctg	720
accgtgctgc accaggattg gctgaacggc aaagagtaca agtgcaaggt gtccaacaag	780
ggcctgcctt ccagcatcga aaagaccatc tccaaggcca agggccagcc tagggaaccc	840
caggtttaca ccctgcctcc aagccaagag gaaatgacca agaaccaggt gtccctgacc	900
tgcttggtca agggcttcta cccttcgat atcgccgtgg aatgggagag caatggccag	960
cctgagaaca actacaagac cacacctcct gtgctggact ccgacggctc cttctttctg	1020
tactcccgcc tgaccgtgga caagtccaga tggcaagagg gcaacgtgtt ctctgtctcc	1080
gtgatgcacg agggcctgca caatcactac acccagaagt ccctgtctct gtccctgggc	1140
aaa	1143

<210> 39

<211> 1143

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 39

accagaggact gtccttcca gcactcccct atctcttccg acttcgccgt gaagatcaga	60
gagctgtccg actacctgct gcaggactat cctgtgaccg tggccagcaa cctgcaggat	120
gaagaactgt gtgggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccgggtccaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccacctgcc tgagattcgt gcagaccaac	300
atctcccggc tgctgcaaga gacatctgag cagctggtgg ccctgaagcc ttggatcacc	360
cggcagaact tctctcggtg cctggaactg cagtgtcagc ctgattcttc taccctgcct	420
ccaccttggg gccctagacc tctggaagct accgccgagt ctaagtacgg acctccttgt	480
cctccatgtc ctgctccaga agctgctggc ggaccaagcg ttttcctgtt tcctccaaag	540
cctaaggaca ccctgatgat ctctcggacc cctgaagtga cctgcgtggg ggtggatgtg	600
tctcaagagg accccgaggt gcagttcaat tggtacgtgg acggcgtgga agtgcacaac	660

gccaagacca agcctagaga ggaacagttc aactccacct acagagtggg gtccgtgctg	720
accgtgctgc accaggattg gctgaacggc aaagagtaca agtgcaaggt gtccaacaag	780
ggcctgccta gctccatcga aaagaccatc tccaaggcca agggccagcc aagagaacct	840
cagggtgtaca cactgcctcc aagccaagag gaaatgacca agaaccaggt gtccctgacc	900
tgcttggtca agggcttcta cccatccgat atcgccgtgg aatgggagtc taacggccag	960
cctgagaaca actacaagac cacacctcct gtgctggact ccgacggctc cttctttctg	1020
tactctcgcc tgaccgtgga caagtctaga tggcaagagg gcaacgtgtt ctcctgctct	1080
gtgatgcacg agggcctgca caaccactac acccagaagt ccctgtctct gtccctgggc	1140
aaa	1143

<210> 40

<211> 1077

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 40

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gagctgagcg actacctgct gcaggactac cctgtgaccg tggccagcaa tctgcaggac	120
gaagaactgt gtgggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180
aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt ccagcctcct ccacacctgcc tgagattcgt gcagaccaac	300
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agacagaact tcagccgggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct	420
ccgccttgga gtcctagacc tgggggaccg tcagtcttcc tcttcccccc aaaacccaag	480
gacaccctca tgatctcccg gaccctgag gtcacatgcg tgggtggtgga cgtgagccac	540
gaagaccctg aggtcaagtt caactggtac gtggacggcg tggaggtgca taatgccaag	600
acaaagccgc gggaggagca gtacaacagc acgtaccgtg tggtcagcgt cctcaccgtc	660
ctgcaccagg actggctgaa tggcaaggag tacaagtgca aggtctccaa caaagccctc	720

ccagccccca tcgagaaaac catctccaaa gccaaagggc agccccgaga accacaggtg	780
tacaccctgc ccccatcccc ggaggagatg accaagaacc aggtcagcct gacctgcctg	840
gtcaaaggct tctatcccag cgacatcgcc gtggagtggg agagcaatgg gcagccggag	900
aacaactaca agaccacgcc tcccgtgctg gactccgacg gctccttctt cctctacagc	960
aagctcaccg tggacaagag caggtggcag caggggaacg tcttctcatg ctccgtgatg	1020
catgaggctc tgcacaacca ctacacgcag aagagcctct ccctgtctcc gggtaaa	1077

<210> 41

<211> 1077

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 41

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gagctgtccg actacctgct gcaggactat cctgtgaccg tggccagcaa cctgcaggat	120
gaagaactgt gtgggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccggctccaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240
ttcgtgacca agtgcgctt tcagcctcct ccacctgccc tgagattcgt gcagaccaac	300
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cggcagaact tctctcgggt cctggaactg cagtgtcagc ctgattcttc taccctgcct	420
ccaccttgga gtcctagacc tggcggacca agcgtgttcc tgtttcctcc aaagcctaag	480
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gaggatcccc aagtgaagtt caattggtac gtggacggcg tggaagtgca caacgccaag	600
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ctgcaccagg attggctgaa cggcaaagag tacaagtgca aggtgtccaa caaggccctg	720
cctgtctcta tcgaaaagac catctccaag gccaaagggc agcctaggga acctcaggtt	780
tacaccctgc cacctagccg ggaagagatg accaaaaacc aggtgtccct gacctgcctg	840
gtcaagggtc tctacccatc cgatatcgcc gtggaatggg agtctaacgg ccagcctgag	900

aacaactaca agaccacacc tcctgtgctg gactccgacg gctcattctt cctgtactcc	960
aagctgacag tggacaagtc tcggtggcag cagggcaacg tgttctcctg ttctgtgatg	1020
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<210> 42
 <211> 1128
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 42	
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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180
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ttcgtgacca agtgcgcctt ccagcctcct ccatcctgcc tgagattcgt gcagaccaac	300
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agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct	420
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atgatctctc ggaccctga agtgacctgc gtggtggtgg atgtgtcca agaggatccc	600
gaggtgcagt tcaattggta cgtggacggc gtggaagtgc acaacgcaa gaccaagcct	660
agagaggaac agttcaactc cacctacaga gtggtgtccg tgctgaccgt gctgcaccag	720
gattggctga acggcaaaga gtacaagtgc aaggtgtcca acaaggcct gccttcagc	780
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ttctaccctt ccgatatcgc cgtggaatgg gagagcaatg gccagcctga gaacaactac	960
aagaccacac ctctgtgct ggactccgac ggctccttct ttctgtactc ccgcctgacc	1020
gtggacaagt ccagatggca agagggaac gtgttctcct gtcctgtgat gcacgaggcc	1080

ctgcacaatc actacacca gaagtcctg tctctgtccc tgggcaaa 1128

<210> 43

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 43

accaggact gtccttcca gcactcccct atctcttccg acttcgccgt gaagatcaga	60
gagctgtccg actacctgct gcaggactat cctgtgaccg tggccagcaa cctgcaggat	120
gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccggctcaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccacctgcc tgagattcgt gcagaccaac	300
atctcccggc tgctgcaaga gacatctgag cagctggtgg ccctgaagcc ttggatcacc	360
cggcagaact tctctcgggtg cctggaactg cagtgtcagc ctgattcttc taccctgcct	420
ccaccttga gccctcggcc tgaatctaag tatggcctc cttgtcctcc atgtcctgct	480
ccagaagctg ctggcggacc aagcgttttc ctgtttcctc caaagcctaa ggacaccctg	540
atgatctctc ggaccctga agtgacctgc gtggtggtgg atgtgtctca agaggacccc	600
gaggtgcagt tcaattggta cgtggacggc gtggaagtgc acaacgcaa gaccaagcct	660
agagaggaac agttcaactc cacctacaga gtggtgtccg tgctgaccgt gctgcaccag	720
gattggctga acggcaaaga gtacaagtgc aaggtgtcca acaaggcct gcctagctcc	780
atcgaaaaga ccacctcaa ggccaagggc cagccaagag aacctcaggt gtacacactg	840
cctccaagcc aagaggaaat gaccaagaac caggtgtccc tgacctgcct ggtcaagggc	900
ttctacccat ccgatatcg cgtggaatgg gagtctaacg gccagcctga gaacaactac	960
aagaccacac ctctgtgct ggactccgac ggctccttct ttctgtactc tcgcctgacc	1020
gtggacaagt ctagatggca agagggcaac gtgttctcct gctctgtgat gcacgaggcc	1080
ctgcacaacc actacacca gaagtcctg tctctgtccc tgggcaaa	1128

<210> 44

<211> 1107
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 44
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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg 180
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ttcgtgacca agtgcgctt ccagcctcct ccatcctgcc tgagattcgt gcagaccaac 300
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gtggacggcg tggaggtgca taatgccaag acaaagccgc gggaggagca gtacaacagc 660
acgtaccgtg tggtcagcgt cctcaccgtc ctgcaccagg actggctgaa tggcaaggag 720
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aagagcctct ccctgtctcc gggtaaa 1107

<210> 45
<211> 1107
<212> DNA
<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 45

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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
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acctacagag tgggtgtccgt gctgaccgtg ctgcaccagg attggctgaa cggcaaagag	720
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gccaagggcc agcctagggga acctcaggtt tacaccctgc cacctagccg ggaagagatg	840
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gtggaatggg agtctaacgg ccagcctgag aacaactaca agaccacacc tcctgtgctg	960
gactccgacg gctcattctt cctgtactcc aagctgacag tggacaagtc tcggtggcag	1020
cagggaacg tgttctcctg ttctgtgatg cacgaggccc tgcacaacca ctacaccag	1080
aagtcctgt ctctgtcccc tggcaaa	1107

<210> 46

<211> 1092

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 46
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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg 180
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agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct 420
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tctccgggta aa 1092

<210> 47

<211> 1092

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 47

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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccggctccaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccatcctgcc tgagattcgt gcagaccaac	300
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cggcagaact tctctcgggtg cctggaactg cagtgtcagc ctgattcttc taccctgcct	420
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cctccaaagc ctaaggacac cctgtacatc acccgcgagc ctgaagtgc atgcgtggtg	540
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aacggccagc ctgagaacaa ctacaagacc acacctcctg tgctggactc cgacggctca	960
ttcttcctgt actccaagct gacagtggac aagtctcgggt ggcagcaggg caacgtgttc	1020
tcctgttctg tgatgcacga ggccctgcac aaccactaca ccagaagtc cctgtctctg	1080
tcccctggca aa	1092

<210> 48

<211> 1158

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 48

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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180

aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt ccagcctcct ccatactgcc tgagattcgt gcagaccaac	300
atcagcagac tgctgcaaga gacaagcgag cagctgggtgg ccctgaagcc ttggatcacc	360
agacagaact tcagccgggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct	420
ccgccttgga gtcctagacc tctggaagcc acagctccca ccgctcctca agaatactaa	480
tacggccctc cctgccctcc ttgcccagcc cctgaatttg agggcggacc ctccgtgttc	540
ctgttcccc caaagcccaa ggacaccctg tacatcacc gggaaccga agtgacctgc	600
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aaggtgtcca acaagggcct gccagctcc atcgagaaaa ccatacagca ggccaagggc	840
cagccccgcg aaccccaggt gtacacactg cctccaagcc aggaagagat gaccaagaac	900
caggtgtccc tgacctgtct cgtgaaaggc ttctaccct ccgatatgc cgtggaatgg	960
gagagcaacg gccagcccga gaacaactac aagaccaccc cccctgtgct ggacagcgac	1020
ggctcattct tcctgtacag cagactgacc gtggacaaga gccggtggca ggaaggcaac	1080
gtgttcagct gcagcgtgat gcacgaggcc ctgcacaacc actacacca gaagtccttg	1140
tctctgtccc tgggcaaa	1158

<210> 49

<211> 1158

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 49

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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccggctcaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240

ttcgtgacca agtgcgcctt tcagcctcct ccatacctgcc tgagattcgt gcagaccaac	300
atctcccggc tgctgcaaga gacatctgag cagctgggtgg ccctgaagcc ttggatcacc	360
cggcagaact tctctcgggtg cctggaactg cagtgtcagc ctgattcttc taccctgcct	420
ccaccttgga gccctagacc tttggaggct acagctccta ccgctcctca agagtctaag	480
tacggccctc cttgtcctcc atgtcctgct ccagaatttg aaggcggccc aagcgtgttc	540
ctgtttcctc caaagcctaa ggacaccctg tacatcaccg gcgagcctga agtgacatgc	600
gtgggtgggtg atgtgtccca agaggacccc gaggtgcagt tcaattggta cgtggacggc	660
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cagggtgtccc tgacctgcct ggtcaagggc ttctacccat ccgatatcgc cgtggaatgg	960
gagtctaacg gccagcctga gaacaactac aagaccacac ctctctgtgct ggactccgac	1020
ggctccttct ttctgtactc tcgcctgacc gtggacaagt ctagatggca agagggcaac	1080
gtgttctcct gctctgtgat gcacgaggcc ctgcacaacc actacacca gaagtccttg	1140
tctctgtccc tgggcaaa	1158

<210> 50

<211> 1158

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 50

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gaagaactgt gtgggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180
aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt ccagcctcct ccatacctgcc tgagattcgt gcagaccaac	300

atcagcagac tgctgcaaga gacaagcgag cagctggtgg ccctgaagcc ttggtacc	360
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caggtgtccc tgacctgtct cgtgaaaggc ttctaccctt ccgatatcgc cgtggaatgg	960
gagagcaacg gccagcccga gaacaactac aagaccaccc cccctgtgct ggacagcgac	1020
ggctcattct tcctgtacag cagactgacc gtggacaaga gccggtggca ggaaggcaac	1080
gtgttcagct gcagcgtgat gcacgaggcc ctgcacaacc actacacca gaagtccttg	1140
tctctgtccc tgggcaaa	1158

<210> 51

<211> 1158

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 51

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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccggctcaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccacctgcc tgagattcgt gcagaccaac	300
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cggcagaact tctctcggtg cctggaactg cagtgtcagc ctgattcttc taccctgcct	420
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cagccaagag aacctcaggt gtacacactg cctccaagcc aagaggaaat gaccaagaac	900
caggtgtccc tgacctgcct ggtcaagggc ttctacccat ccgatatcgc cgtggaatgg	960
gagtctaacg gccagcctga gaacaactac aagaccacac ctctgtgct ggactccgac	1020
ggctccttct ttctgtactc tcgcctgacc gtggacaagt ctagatggca agagggaac	1080
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tctctgtccc tgggcaaa	1158

<210> 52

<211> 1185

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 52

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ttcgccgtga agatcagaga gctgtccgac tatctgctgc aggactaccc tgtgaccgtg	180
gccagcaatc tgcaggacga agaactgtgt ggtggcctgt ggcgactggg gttggctcag	240
agatggatgg aacggctgaa aaccgtggcc ggctctaaga tgcagggcct gctggaaaga	300
gtgaacaccg agatccactt cgtgaccaag tgcgcctttc agcctcctcc atcctgcctg	360
agattcgtgc agaccaatat cgcccggctg ctgcaagaga catccgagca gctggtggct	420

ctgaagccct ggatcaccag acagaacttc gcccgggtgtc tggaactgca gtgtcagcct	480
gacagctcta ccctgcctcc accttgagac cctagacctc tggaagctac cgctccaacc	540
gctcctcaag ggggaccgtc agtcttcctc ttcccccaa aaccaagga caccctctac	600
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gtcaagttca actggtacgt ggacggcgtg gaggtgcata atgccaagac aaagccgcgg	720
gaggagcagt acaacagcac gtaccgtgtg gtcagcgtcc tcaccgtcct gcaccaggac	780
tgggtgaatg gcaaggagta caagtgcaag gtctccaaca aagccctccc agccccatc	840
gagaaaacca tctccaaagc caaagggcag ccccgagaac cacaggtgta caccctgccc	900
ccatcccgagg aggagatgac caagaaccag gtcagcctga cctgcctggg caaaggcttc	960
tatcccagcg acatcgccgt ggagtgggag agcaatgggc agccggagaa caactacaag	1020
accacgcctc ccgtgctgga ctccgacggc tccttcttcc tctacagcaa gctcaccgtg	1080
gacaagagca ggtggcagca ggggaacgtc ttctcatgct ccgtgatgca tgaggctctg	1140
cacaaccact acacgcagaa gaggctctcc ctgtctccgg gtaaa	1185

<210> 53

<211> 1107

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 53

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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccggctccaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccacctgccc tgagattcgt gcagaccaat	300
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agacagaact tcgcccgggt cctggaactg cagtgtcagc ctgattcttc taccctgcct	420
ccaccttggg gccctagacc tttggaggct acagctccta ctgctcctca aggcggccca	480

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gtggacggcg tggaaagtga caacgccaag accaagccta gagaggaaca gtacaactcc	660
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gactccgacg gctcattctt cctgtactcc aagctgacag tggacaagtc tcggtggcag	1020
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aagtcctgt ctctgtcccc tggcaaa	1107

<210> 54

<211> 1143

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 54

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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180
aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt ccagcctcct ccatcctgcc tgagattcgt gcagaccaac	300
atcagcagac tgctgcaaga gacaagcgag cagctggtgg ccctgaagcc ttggatcacc	360
agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct	420
ccgccttggg gtcctagacc tctggaagcc acagctgagt ctaagtacgg ccctccttgt	480
cctccatgtc ctgctccaga agctgctggc ggcccttccg tgtttctgtt ccctccaaag	540
cccaaggaca ccctgtacat caccgggaa cccgaagtga cctgcgtggt ggtggatgtg	600

tcccaggaag atccccgaggt gcagttcaat tggtacgtgg acggcgtgga agtgcacaac	660
gccaagacca agcccagaga ggaacagttc aacagcacct accgggtggt gtccgtgctg	720
acagtgtctgc accaggactg gctgaacggc aaagagtaca agtgcaaggt gtccaacaag	780
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caggtgtaca cactgcctcc aagccaggaa gagatgacca agaaccaggt gtccctgacc	900
tgtctctgtga aaggcttcta cccctccgat atcgccgtgg aatgggagag caacggccag	960
cccgagaaca actacaagac cccccccct gtgctggaca gcgacggctc attcttcctg	1020
tacagcagac tgaccgtgga caagagccgg tggcaggaag gcaacgtgtt cagctgcagc	1080
gtgatgcacg aggccctgca caaccactac acccagaagt ccctgtctct gtccctgggc	1140
aaa	1143

<210> 55

<211> 1143

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 55

accaggaact gtccttcca gcactcccct atctcttccg acttcgccgt gaagatcaga	60
gagctgtccg actacctgct gcaggactat cctgtgaccg tggccagcaa cctgcaggat	120
gaagaactgt gtgggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccgggtccaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccatactgcc tgagattcgt gcagaccaac	300
atctcccggc tgctgcaaga gacatctgag cagctggtgg ccctgaagcc ttggatcacc	360
cggcagaact tctctcggtg cctggaactg cagtgtcagc ctgattcttc taccctgcct	420
ccaccttggg gccctagacc tctggaagct accgccgagt ctaagtacgg acctccttgt	480
cctccatgtc ctgctccaga agctgctggc ggaccaagcg ttttcctgtt tcctccaaag	540
cctaaggaca ccctgtacat caccgcgag cctgaagtga catgcgtggt ggtggatgtg	600
tccaagagg accccgaggt gcagttcaat tggtacgtgg acggcgtgga agtgcacaac	660

gccaagacca agcctagaga ggaacagttc aactccacct acagagtggg gtccgtgctg	720
accgtgctgc accaggattg gctgaacggc aaagagtaca agtgcaaggt gtccaacaag	780
ggcctgccta gtcctatcga aaagaccatc tccaaggcca agggccagcc aagagaacct	840
cagggtgtaca cactgcctcc aagccaagag gaaatgacca agaaccaggt gtcctgacc	900
tgcttggtca agggcttcta cccatccgat atcgccgtgg aatgggagtc taacggccag	960
cctgagaaca actacaagac cacacctcct gtgctggact ccgacggctc cttctttctg	1020
tactctcgcc tgaccgtgga caagtctaga tggcaagagg gcaacgtgtt ctcctgctct	1080
gtgatgcacg agggcctgca caaccactac acccagaagt ccctgtctct gtcctgggc	1140
aaa	1143

<210> 56

<211> 1077

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 56

acacaggatt gcagcttcca gcacagcccc atcagcagcg atttcgccgt gaagatcaga	60
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gaagaactgt gtgggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180
aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt ccagcctcct ccctcctgcc tgagattcgt gcagaccaac	300
atcagcagac tgctgcaaga gacaagcgag cagctgggtg ccctgaagcc ttggatcacc	360
agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct	420
ccgccttgga gtcctagacc tgggggaccg tcagtcttcc tcttcccccc aaaacccaag	480
gacaccctct acatcacccg ggaacctgag gtcacatgcg tgggtggtgga cgtgagccac	540
gaagaccctg aggtcaagtt caactggtac gtggacggcg tggaggtgca taatgccaag	600
acaaagccgc gggaggagca gtacaacagc acgtaccgtg tggtcagcgt cctcaccgtc	660
ctgcaccagg actggctgaa tggcaaggag tacaagtgca aggtctccaa caaagccctc	720

ccagccccca tcgagaaaac catctccaaa gccaaagggc agccccgaga accacaggtg	780
tacaccctgc ccccatcccc ggaggagatg accaagaacc aggtcagcct gacctgcctg	840
gtcaaaggct tctatcccag cgacatcgcc gtggagtggg agagcaatgg gcagccggag	900
aacaactaca agaccacgcc tcccgtgctg gactccgacg gctccttctt cctctacagc	960
aagctcaccg tggacaagag caggtggcag caggggaacg tcttctcatg ctccgtgatg	1020
catgaggctc tgcacaacca ctacacgcag aagagcctct ccctgtctcc gggtaaa	1077

<210> 57

<211> 1077

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 57

accaggact gtccttcca gcactcccct atctcttccg acttcgccgt gaagatcaga	60
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gaagaactgt gtgggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg	180
aaaaccgtgg ccggctccaa gatgcaggga ctgctggaaa gagtgaacac agagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccacctcgcc tgagattcgt gcagaccaac	300
atctcccggc tgctgcaaga gacatctgag cagctggtgg ccctgaagcc ttggatcacc	360
cggcagaact tctctcgggtg cctggaactg cagtgtcagc ctgattcttc taccctgcct	420
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gacaccctgt acatcacccg cgagcctgaa gtgacatgcg tgggtggtgga tgtgtcccac	540
gaggaccccg aagtgaagtt caattggtac gtggacggcg tggaagtgca caacgccaag	600
accaagccta gagaggaaca gtacaactcc acctacagag tgggtgtccgt gctgaccgtg	660
ctgcaccagg attggctgaa cggcaaagag tacaagtgca aggtgtccaa caaggccctg	720
cctgtctcta tcgaaaagac catctccaag gccaaagggc agcctaggga acctcaggtt	780
tacaccctgc cacctagccg ggaagagatg accaaaaacc aggtgtccct gacctgcctg	840
gtcaagggtc tctacccatc cgatatcgcc gtggaatggg agtctaacgg ccagcctgag	900

aacaactaca agaccacacc tcctgtgctg gactccgacg gctcattctt cctgtactcc	960
aagctgacag tggacaagtc tcggtggcag cagggcaacg tgttctcctg ttctgtgatg	1020
cacgaggccc tgcacaacca ctacaccag aagtcctgt ctctgtcccc tggcaaa	1077

<210> 58
 <211> 1128
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 58	
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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180
aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttctgaccca agtgcgcctt ccagcctcct ccatcctgcc tgagattcgt gcagaccaac	300
atcagcagac tgctgcaaga gacaagcgag cagctgggtg ccctgaagcc ttggatcacc	360
agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct	420
ccgccttgga gtcctagacc tgagtctaag tacggccctc cttgtcctcc atgtcctgct	480
ccagaagctg ctggcggccc ttccgtgttt ctgttcctc caaagcctaa ggacaccctg	540
tacatcaccg gggaaccga agtgacctgc gtggtggtgg atgtgtcca ggaagatccc	600
gaggtgcagt tcaattggta cgtggacggc gtggaagtgc acaacgcaa gaccaagccc	660
agagaggaac agttcaacag cacctaccgg gtggtgtccg tgctgacagt gctgcaccag	720
gactggctga acggcaaaga gtacaagtgc aaggtgtcca acaaggcct gccagctcc	780
atcgagaaaa ccatcagcaa ggccaagggc cagccccgcg aacccaggt gtacacactg	840
cctccaagcc aggaagagat gaccaagaac caggtgtccc tgacctgtct cgtgaaaggc	900
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aagaccacc cccctgtgct ggacagcgac ggctcattct tcctgtacag cagactgacc	1020
gtggacaaga gccggtggca ggaaggcaac gtgttcagct gcagcgtgat gcacgaggcc	1080

ctgcacaacc actacaccca gaagtcctg tctctgtccc tgggcaaa 1128

<210> 59

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 59

accaggact gtccttcca gcactcccct atctcttccg acttcgccgt gaagatcaga 60

gagctgtccg actacctgct gcaggactat cctgtgaccg tggccagcaa cctgcaggat 120

gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaaagactg 180

aaaaccgtgg ccggctcaa gatgcaggga ctgctggaaa gagtgaacac agagatccac 240

ttcgtgacca agtgcgcctt tcagcctcct ccacctgcc tgagattcgt gcagaccaac 300

atctcccggc tgctgcaaga gacatctgag cagctggtgg ccctgaagcc ttggatcacc 360

cggcagaact tctctcgggtg cctggaactg cagtgtcagc ctgattcttc taccctgcct 420

ccaccttga gccctcggcc tgaatctaag tatggcctc cttgtcctcc atgtcctgct 480

ccagaagctg ctggcggacc aagcgttttc ctgtttcctc caaagcctaa ggacaccctg 540

tacatcacc gcgagcctga agtgacatgc gtggtggtgg atgtgtcca agaggacccc 600

gaggtgcagt tcaattggta cgtggacggc gtggaagtgc acaacgcaa gaccaagcct 660

agagaggaac agttcaactc cacctacaga gtggtgtccg tgctgaccgt gctgcaccag 720

gattggctga acggcaaaga gtacaagtgc aaggtgtcca acaaggcct gcctagctcc 780

atcgaaaaga ccacctccaa ggccaagggc cagccaagag aacctcaggt gtacacactg 840

cctccaagcc aagaggaaat gaccaagaac caggtgtccc tgacctgcct ggtcaagggc 900

ttctacccat ccgatatcgc cgtggaatgg gagtctaacg gccagcctga gaacaactac 960

aagaccacac ctctgtgct ggactccgac ggctccttct ttctgtactc tcgctgacc 1020

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ctgcacaacc actacaccca gaagtcctg tctctgtccc tgggcaaa 1128

<210> 60

<211> 1128
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 60
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gaagaactgt gtggtggcct gtggcgactg gtgttggtc agagatggat ggaacggctg 180
aaaaccgtgg ccggctctaa gatgcagggc ctgctggaaa gagtgaacac cgagatccac 240
ttcgtgacca agtgcgctt tcagcctcct ccacctgcc tgagattcgt gcagaccaat 300
atgcccggc tgctgcaaga gacatccgag cagctggtgg ctctgaagcc ctggatcacc 360
agacagaact tcgcccgggtg tctggaactg cagtgtcagc ctgacagctc taccctgcct 420
ccaccttga gccctagacc tgagtctaag tacggcctc cttgtcctcc atgtcctgct 480
ccagaagctg ctggcggccc ttccgtgtt ctgttcctc caaagcctaa ggacaccctg 540
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cctccaagcc aagaggaaat gaccaagaac caggtgtccc tgacctgcct ggtcaagggc 900
ttctaccctt ccgatatcg cgtggaatgg gagagcaatg gccagcctga gaacaactac 960
aagaccacac ctctgtgct ggactccgac ggctccttct ttctgtactc ccgctgacc 1020
gtggacaagt ccagatggca agagggaac gtgttctcct gctccgtgat gcacgaggcc 1080
ctgcacaatc actacacca gaagtcctg tctctgtccc tgggcaaa 1128

<210> 61
<211> 1128
<212> DNA
<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 61

accaggact gttccttcca gcactcccct atctccagcg acttcgccgt gaagatcaga	60
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gaagaactgt gtgggtggcct gtggcgactg gtgttggtct agagatggat ggaacggctg	180
aaaaccgtgg ccggctctaa gatgcagggc ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccatcctgcc tgagattcgt gcagaccaat	300
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agacagaact tcgcccgggtg tctggaactg cagtgtcagc ctgacagctc taccctgcct	420
ccaccttgga gccctagacc tgagtctaag tacggccctc cttgtcctcc atgtcctgct	480
ccagaagctg ctggcggccc ttccgtgttt ctgttcctc caaagcccaa ggacaccctg	540
tacatcaccg gggaaccga agtgacctgc gtgggtggtg atgtgtccca ggaagatccc	600
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agagaggaac agttcaacag cacctaccgg gtggtgtccg tgctgacagt gctgcaccag	720
gactggctga acggcaaaga gtacaagtgc aaggtgtcca acaaggcct gccagctcc	780
atcgagaaaa ccatcagcaa ggccaagggc cagccccgcg aaccccaggt gtacacactg	840
cctccaagcc aggaagagat gaccaagaac caggtgtccc tgacctgtct cgtgaaaggc	900
ttctaccctt ccgatatcgc cgtggaatgg gagagcaacg gccagcccga gaacaactac	960
aagaccacc cccctgtgct ggacagcgac ggctcattct tcctgtacag cagactgacc	1020
gtggacaaga gccggtggca ggaaggcaac gtgttcagct gcagcgtgat gcacgaggcc	1080
ctgcacaacc actacacca gaagtcctg tctctgtccc tgggcaaa	1128

<210> 62

<211> 1167

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 62
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 gagctgaccg accatctgct gaaggactat cctgtgaccg tggccgtgaa cctgcaggac 120
 gaaaagcact gcaaggccct gtggtccctg tttctggccc agagatggat cgagcagctg 180
 aaaaccgtgg ctggctccaa gatgcagacc ctgctggaag atgtgaacac cgagatccac 240
 ttcgtgacca gctgcacctt ccagcctctg cctgagtgcc tgagattcgt gcagaccaac 300
 atctcccacc tggtgaagga cacatgcacc cagctgctgg ccctgaagcc ttgtatcggc 360
 aaggcctgcc agaacttctc ccggtgtctg gaagtgcagt gccagcctga ctctccaca 420
 ctgctgccac ctagaagccc tatcgtctg gaagctaccg agctgcctga gcctagaggc 480
 cctaccatca agccttgtcc tccatgcaag tgccccgctc ctaatgctgc tgggtggccct 540
 tccgtgttca tcttcccacc taagatcaag gacgtgctga tgatctccct gtctcctatc 600
 gtgacctgcg tgggtggtgga cgtgtccgag gatgatcctg acgtgcagat cagttggttc 660
 gtgaacaacg tggaagtgca caccgctcag acccagacac acagagagga ctacaacagc 720
 accctgagag tgggtgtctgc cctgcctatc cagcaccagg attggatgtc cggcaaagaa 780
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 gtggaatgga ccaacaacgg caagaccgag ctgaactaca agaacaccga gcctgtgctg 1020
 gactccgacg gtcctactt catgtactcc aagctgcgcg tcgagaagaa gaactgggtc 1080
 gagagaaact cctactcctg ctccgtggtg cacgagggcc tgcacaatca ccacaccacc 1140
 aagtccttct ctcggacccc tggcaaa 1167

<210> 63

<211> 1167

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 63

acccttgact gctacttcag ccactctcct atctccagca acttcaaagt gaagttccgc	60
gagctgaccg accatctgct gaaggactat cctgtgaccg tggccgtgaa cctgcaggac	120
gaaaagcact gcaaggccct gtggtccctg tttctggccc agagatggat cgagcagctg	180
aaaaccgtgg ctggctccaa gatgcagacc ctgctggaag atgtgaacac cgagatccac	240
ttcgtgacca gctgcacctt ccagcctctg cctgagtgcc tgagattcgt gcagaccaac	300
atctcccacc tgttgaagga cacatccacc cagctgctgg ccctgaagcc ttgtatcggc	360
aaggcctgcc agaacttctc ccggtgtctg gaagtgcagt gccagcctga ctcctccaca	420
ctgctgccac ctagaagccc tatcgctctg gaagctaccg agctgcctga gcctagaggc	480
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tccgtgttca tcttcccacc taagatcaag gacgtgctga tgatctccct gtctcctatc	600
gtgacctgcg tgggtggtgga cgtgtccgag gatgatcctg acgtgcagat cagttggttc	660
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accctgagag tgggtgtctgc cctgcctatc cagcaccagg attggatgtc cggcaaagaa	780
ttcaagtgca aagtgaacaa caaggacctg ggcgctccca tcgagcggac catctctaag	840
cctaagggat ccgtcagagc ccctcaggtg tacgttctgc ctccacctga ggaagagatg	900
accaagaaac aagtgaccct gacctgcatg gtcaccgact tcatgcccga ggacatctac	960
gtggaatgga ccaacaacgg caagaccgag ctgaactaca agaacaccga gcctgtgctg	1020
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gagagaaact cctactcctg ctccgtggtg cacgagggcc tgcacaatca ccacaccacc	1140
aagtccttct ctcggacccc tggcaaa	1167

<210> 64

<211> 1107

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 64

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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180
aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt ccagcctcct ccatictgcg tgagattcgt gcagaccaac	300
atcagcagac tgctgcaaga gacaagcgag cagctggtgg ccctgaagcc ttggatcacc	360
agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct	420
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gtgacctgcg tgggtgggga tgtgtccac gaggatcccg aagtgaagtt caattggtac	600
gtggacggcg tggaagtga caacgccaag accaagccta gagaggaaca gtacaacagc	660
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accaagaacc aggtgtccct gagctgcctg gtcaagggtt ttaccaccag cgacattgcc	900
gtggaatggg agagcaatgg ccagcctgag aacaactaca agaccaccgt gcctgtgctg	960
gacagcgacg gctcttttag actggccagc tacctgaccg tggacaagag cagatggcag	1020
cagggcaacg tgttcagctg cagcgtgatg cacgaggccc tgcacaacca ctacaccag	1080
aagtcctgt ctctgagccc cggcaaa	1107

<210> 65

<211> 1107

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 65

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gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180

aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt ccagcctcct ccatcctgcc tgagattcgt gcagaccaac	300
atcagcagac tgctgcaaga gacaagcgag cagctgggtgg ccctgaagcc ttggatcacc	360
agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct	420
ccgccttgga gtcctagacc tctggaagcc acagctccca ccgctcctca aggcggaccg	480
tcagtcttcc tcttcccccc aaaaccaag gacaccctca tgatctcccg gaccctgag	540
gtcacatgcg tgggtgggtgga cgtgagccac gaagaccctg aggtcaagtt caactggtac	600
gtggacggcg tggaggtgca taatgccaag acaaagccgc gggaggagca gtacaacagc	660
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gccaaagggc agccccgaga accacaggtg tacaccctgc ccccatcccg ggaggagatg	840
accaagaacc aggtcagcct gacctgcctg gtcaaaggct tctatcccag cgacatcgcc	900
gtggagtggg agagcaatgg gcagccggag aacaactaca agaccacgcc tcccgtgctg	960
gactccgacg gtccttctt cctctacagc aagctcaccg tggacaagag caggtggcag	1020
caggggaacg tcttctcatg ctccgtgatg catgaggctc tgcacaacca ctacacgcag	1080
aagagcctct ccctgtctcc gggtaaa	1107

<210> 66

<211> 1107

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 66

acacaggatt gcagcttcca gcacagcccc atcagcagcg atttcgccgt gaagatcaga	60
gagctgagcg actacctgct gcaggactac cctgtgaccg tggccagcaa tctgcaggac	120
gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180
aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgaccg agtgcgcctt ccagcctcct ccatcctgcc tgagattcgt gcagaccaac	300

atcagcagac tgctgcaaga gacaagcgag cagctggtgg ccctgaagcc ttggatcacc	360
agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct	420
ccgccttgga gtcctagacc tctggaagcc acagctccca ccgctcctca aggcggaaccg	480
tcagtcttcc tcttcccccc aaaaccaag gacaccctca tgatctcccg gaccctgag	540
gtcacatgcg tgggtggtgga cgtgagccac gaagaccctg aggtcaagtt caactggtac	600
gtggacggcg tggaggtgca taatgccaag acaaagccgc gggaggagca gtacaacagc	660
acgtaccgtg tggtcagcgt cctcaccgtc ctgcaccagg actggctgaa tggcaaggag	720
tacaagtgca aggtctccaa caaagccctc ccagcccca tcgagaaaac catctccaaa	780
gccaaagggc agccccgaga accacaggtg tacaccctgc ccccatcccg ggaggagatg	840
accaagaacc aggtcagcct gacctgcctg gtcaaaggct tctatcccag cgacatcgcc	900
gtggagtggg agagcaatgg gcagccggag aacaactaca agaccacgcc tcccgtgctg	960
gactccgacg gctccttctt cctctacagc aagctcaccg tggacaagag caggtggcag	1020
caggggaacg tcttctcatg ctccgtgatg catgaggctc tgcacaacca ctacacgcag	1080
aagagcctct ccctgtctcc gggtaaa	1107

<210> 67

<211> 1107

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 67

acacaggatt gcagcttcca gtacagcccc atcagcagcg atttcgccgt gaagatcaga	60
gagctgagcg actacctgct gcaggactac cctgtgaccg tggccagcaa tctgcaggac	120
gaagaactgt gtggtggact gtggcgactg gtgctggctc agagatggat ggaacggctg	180
aaaacagtgg ccggcagcaa gatgcaggga ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgaccg agtgcgctt ccagcctcct ccatcctgcc tgagattcgt gcagaccaac	300
atcagcagac tgctgcaaga gacaagcgag cagctggtgg ccctgaagcc ttggatcacc	360
agacagaact tcagccggtg cctggaactg cagtgtcagc ccgatagcag cacactgcct	420

ccgccttgga gtcctagacc tctggaagcc acagctccca ccgctcctca aggcggaccg	480
tcagtcttcc tcttcccccc aaaaccaag gacaccctca tgatctcccg gaccctgag	540
gtcacatgcg tggtggtgga cgtgagccac gaagaccctg aggtcaagtt caactggtac	600
gtggacggcg tggaggtgca taatgccaag acaaagccgc gggaggagca gtacaacagc	660
acgtaccgtg tggtcagcgt cctcaccgtc ctgcaccagg actggctgaa tggcaaggag	720
tacaagtgca aggtctccaa caaagccctc ccagccccca tcgagaaaac catctccaaa	780
gccaaagggc agccccgaga accacaggtg tacaccctgc ccccatcccg ggaggagatg	840
accaagaacc aggtcagcct gacctgcctg gtcaaaggct tctatcccag cgacatcgcc	900
gtggagtggg agagcaatgg gcagccggag aacaactaca agaccacgcc tcccgtgctg	960
gactccgacg gctccttctt cctctacagc aagctcaccg tggacaagag caggtggcag	1020
caggggaacg tcttctcatg ctccgtgatg catgaggctc tgcacaacca ctacacgcag	1080
aagagcctct ccctgtctcc gggtaaa	1107

<210> 68

<211> 1143

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 68

accaggact gttccttcca gcactcccct atctccagcg acttcgccgt gaagatcaga	60
gagctgtccg actatctgct gcaggactac cctgtgaccg tggccagcaa tctgcaggac	120
gaagaactgt gtgggtggcct gtggcgactg gtgttggtc agagatggat ggaacggctg	180
aaaaccgtgg ccggctctaa gatgcagggc ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccatacctgcc tgagattcgt gcagaccaat	300
atgcccggc tgctgcaaga gacatccgag cagctggtgg ctctgaagcc ctggatcacc	360
agacagaact tcgcccgggtg tctggaactg cagtgtcagc ctgacagctc taccctgcct	420
ccaccttgga gccctagacc tctggaagct accgctgagt ctaagtacgg ccctccttgt	480
cctccatgtc ctgctccaga agctgctggc ggcccttccg tgtttctgtt ccctccaaag	540

cccaaggaca ccctgtacat caccgaggaa cccgaagtga cctgcgtggt ggtggatgtg	600
tcccaggaag atcccagagt gcagttcaat tggtagctgg acggcgtgga agtgcacaac	660
gccaagacca agcccagaga ggaacagttc aacagcacct accgggtggt gtccgtgctg	720
acagtgtctg accaggactg gctgaacggc aaagagtaca agtgcaaggt gtccaacaag	780
ggcctgccc gctccatcga gaaaaccatc agcaaggcca agggccagcc ccgcgaaccc	840
caggtgtaca cactgcctcc aagccaggaa gagatgacca agaaccaggt gtccctgacc	900
tgtctcgtga aaggcttcta cccctccgat atcgccgtgg aatgggagag caacggccag	960
cccgagaaca actacaagac cccccccct gtgctggaca gcgacggctc attcttcctg	1020
tacagcagac tgaccgtgga caagagccgg tggcaggaag gcaacgtgtt cagctgcagc	1080
gtgatgcacg aggccctgca caaccactac acccagaagt ccctgtctct gtccctgggc	1140
aaa	1143

<210> 69

<211> 1143

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 69

accaggact gttccttcca gcactcccct atctccagcg acttcgccgt gaagatcaga	60
gagctgtccg actatctgct gcaggactac cctgtgaccg tggccagcaa tctgcaggac	120
gaagaactgt gtggtggcct gtggcgactg gtgttggtc agagatggat ggaacggctg	180
aaaaccgtgg ccggctctaa gatgcagggc ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccacctgcc tgagattcgt gcagaccaac	300
atctcccggc tgctgcaaga gacatccgag cagctggtgg ctctgaagcc ctggatcacc	360
cggcagaact tctctcgggtg tctggaactg cagtgtcagc ctgatgctgc cgctttgcct	420
ccaccttggg gccctagacc tctggaagct accgccgagt ctaagtacgg acctccttgt	480
cctccatgtc ctgctccaga agctgctggc ggcccttccg tgtttctgtt ccctccaaag	540
cccaaggaca ccctgtacat caccgaggaa cccgaagtga cctgcgtggt ggtggatgtg	600

tcccaggaag atccccgaggt gcagttcaat tggtacgtgg acggcgtgga agtgcacaac	660
gccaagacca agcccagaga ggaacagttc aacagcacct accgggtggt gtccgtgctg	720
acagtgtctgc accaggactg gctgaacggc aaagagtaca agtgcaaggt gtccaacaag	780
ggcctgcca gctccatcga gaaaaccatc agcaaggcca agggccagcc ccgcgaaccc	840
caggtgtaca cactgcctcc aagccaggaa gagatgacca agaaccaggt gtccctgacc	900
tgtctcgtga aaggcttcta cccctccgat atcgccgtgg aatgggagag caacggccag	960
cccgagaaca actacaagac cccccccct gtgctggaca gcgacggctc attcttcctg	1020
tacagcagac tgaccgtgga caagagccgg tggcaggaag gcaacgtgtt cagctgcagc	1080
gtgatgcacg aggccctgca caaccactac acccagaagt ccctgtctct gtccctgggc	1140
aaa	1143

<210> 70

<211> 1143

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 70

accaggaact gttccttcca gcactcccct atctccagcg acttcgccgt gaagatcaga	60
gagctgtccg actatctgct gcaggactac cctgtgaccg tggccagcaa tctgcaggac	120
gaagaactgt gtgggtggcct gtggcgactg gtgttggtc agagatggat ggaacggctg	180
aaaaccgtgg ccggctctaa gatgcagggc ctgctggaaa gagtgaacac cgagatccac	240
ttcgtgacca agtgcgcctt tcagcctcct ccatacctgcc tgagattcgt gcagaccaac	300
atctcccggc tgctgcaaga gacatccgag cagctggtgg ctctgaagcc ctggatcacc	360
cggcagaact tctctcggtg tctggaactg cagtgtcagc ctgatgctgc cgctttgcct	420
cctccttggg ctctcgacc tctggaagct acagccgagg ctaagtatgg ccctccttgt	480
cctccatgtc ctgctccaga agctgctggc ggcccttccg tgtttctgtt ccctccaaag	540
ccaaggaca ccctgtacat caccgggaa cccgaagtga cctgcgtggt ggtggatgtg	600
tcccaggaag atccccgaggt gcagttcaat tggtacgtgg acggcgtgga agtgcacaac	660

gccaagacca agcccagaga ggaacagttc aacagcacct accgggtggt gtccgtgctg 720
acagtgtctgc accaggactg gctgaacggc aaagagtaca agtgcaaggt gtccaacaag 780
ggcctgcccc gctccatcga gaaaaccatc agcaaggcca agggccagcc ccgcgaaccc 840
caggtgtaca cactgcctcc aagccaggaa gagatgacca agaaccaggt gtccctgacc 900
tgtctcgtga aaggcttcta cccctccgat atcgccgtgg aatgggagag caacggccag 960
cccgagaaca actacaagac cccccccct gtgctggaca gcgacggctc attcttcctg 1020
tacagcagac tgaccgtgga caagagccgg tggcaggaag gcaacgtgtt cagctgcagc 1080
gtgatgcacg aggccctgca caaccactac acccagaagt ccctgtctct gtccctgggc 1140
aaa 1143

<210> 71
<211> 147
<212> PRT
<213> Homo sapiens

<400> 71
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu

115

120

125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
 130 135 140

Pro Arg Pro
 145

<210> 72
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 72
 Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
 1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
 20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
 50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
 85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
 100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
 115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
 130 135 140

Pro Arg Pro Leu

145

<210> 73

<211> 149

<212> PRT

<213> Homo sapiens

<400> 73

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu

145

<210> 74

<211> 150

<212> PRT

<213> Homo sapiens

<400> 74

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala
145 150

<210> 75

<211> 151

<212> PRT

<213> Homo sapiens

<400> 75

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr
145 150

<210> 76
<211> 152
<212> PRT
<213> Homo sapiens

<400> 76
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala
145 150

<210> 77
<211> 153
<212> PRT
<213> Homo sapiens

<400> 77
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro
145 150

<210> 78
<211> 154
<212> PRT
<213> Homo sapiens

<400> 78
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr
145 150

<210> 79
<211> 155
<212> PRT
<213> Homo sapiens

<400> 79
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala
145 150 155

<210> 80
<211> 156
<212> PRT
<213> Homo sapiens

<400> 80
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
20 25 30

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

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
50 55 60

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

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro
145 150 155

<210> 81
<211> 157
<212> PRT
<213> Homo sapiens

<400> 81
Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala

1	5	10	15												
Val	Lys	Ile	Arg	Glu	Leu	Ser	Asp	Tyr	Leu	Leu	Gln	Asp	Tyr	Pro	Val
			20					25					30		
Thr	Val	Ala	Ser	Asn	Leu	Gln	Asp	Glu	Glu	Leu	Cys	Gly	Gly	Leu	Trp
		35					40					45			
Arg	Leu	Val	Leu	Ala	Gln	Arg	Trp	Met	Glu	Arg	Leu	Lys	Thr	Val	Ala
	50					55					60				
Gly	Ser	Lys	Met	Gln	Gly	Leu	Leu	Glu	Arg	Val	Asn	Thr	Glu	Ile	His
65					70					75					80
Phe	Val	Thr	Lys	Cys	Ala	Phe	Gln	Pro	Pro	Pro	Ser	Cys	Leu	Arg	Phe
				85					90					95	
Val	Gln	Thr	Asn	Ile	Ser	Arg	Leu	Leu	Gln	Glu	Thr	Ser	Glu	Gln	Leu
			100					105					110		
Val	Ala	Leu	Lys	Pro	Trp	Ile	Thr	Arg	Gln	Asn	Phe	Ser	Arg	Cys	Leu
		115					120					125			
Glu	Leu	Gln	Cys	Gln	Pro	Asp	Ser	Ser	Thr	Leu	Pro	Pro	Pro	Trp	Ser
	130					135					140				
Pro	Arg	Pro	Leu	Glu	Ala	Thr	Ala	Pro	Thr	Ala	Pro	Gln			
145					150					155					

<210> 82
 <211> 17
 <212> PRT
 <213> Unknown

<220>
 <221> source
 <223> /note="Description of Unknown:
 Serum albumin signal peptide"

<400> 82
Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala Tyr
1 5 10 15

Ser

<210> 83
<211> 26
<212> PRT
<213> Unknown

<220>
<221> source
<223> /note="Description of Unknown:
FLT3L signal peptide"

<400> 83
Met Thr Val Leu Ala Pro Ala Trp Ser Pro Thr Thr Tyr Leu Leu Leu
1 5 10 15

Leu Leu Leu Leu Ser Ser Gly Leu Ser Gly
20 25

<210> 84
<211> 27
<212> PRT
<213> Unknown

<220>
<221> source
<223> /note="Description of Unknown:
FLT3L signal peptide"

<400> 84
Met Thr Val Leu Ala Pro Ala Trp Ser Pro Asn Ser Ser Leu Leu Leu
1 5 10 15

Leu Leu Leu Leu Leu Ser Pro Cys Leu Arg Gly
20 25

<210> 85
<211> 5
<212> PRT
<213> Homo sapiens

<400> 85
Pro Thr Ala Pro Gln
1 5

<210> 86
<211> 6

<212> PRT
<213> Homo sapiens

<400> 86
Ala Pro Thr Ala Pro Gln
1 5

<210> 87
<211> 7
<212> PRT
<213> Homo sapiens

<400> 87
Thr Ala Pro Thr Ala Pro Gln
1 5

<210> 88
<211> 8
<212> PRT
<213> Homo sapiens

<400> 88
Ala Thr Ala Pro Thr Ala Pro Gln
1 5

<210> 89
<211> 9
<212> PRT
<213> Homo sapiens

<400> 89
Glu Ala Thr Ala Pro Thr Ala Pro Gln
1 5

<210> 90
<211> 10
<212> PRT
<213> Homo sapiens

<400> 90
Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln
1 5 10

<210> 91
<211> 7
<212> PRT
<213> Homo sapiens

<400> 91

Pro Thr Ala Pro Gln Pro Pro
1 5

<210> 92
<211> 8
<212> PRT
<213> Homo sapiens

<400> 92
Ala Pro Thr Ala Pro Gln Pro Pro
1 5

<210> 93
<211> 9
<212> PRT
<213> Homo sapiens

<400> 93
Thr Ala Pro Thr Ala Pro Gln Pro Pro
1 5

<210> 94
<211> 10
<212> PRT
<213> Homo sapiens

<400> 94
Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro
1 5 10

<210> 95
<211> 11
<212> PRT
<213> Homo sapiens

<400> 95
Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro
1 5 10

<210> 96
<211> 12
<212> PRT
<213> Homo sapiens

<400> 96
Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro
1 5 10

<210> 97
<211> 5
<212> PRT
<213> Homo sapiens

<400> 97
Glu Ser Lys Tyr Gly
1 5

<210> 98
<211> 159
<212> PRT
<213> Mus musculus

<400> 98
Thr Pro Asp Cys Tyr Phe Ser His Ser Pro Ile Ser Ser Asn Phe Lys
1 5 10 15

Val Lys Phe Arg Glu Leu Thr Asp His Leu Leu Lys Asp Tyr Pro Val
20 25 30

Thr Val Ala Val Asn Leu Gln Asp Glu Lys His Cys Lys Ala Leu Trp
35 40 45

Ser Leu Phe Leu Ala Gln Arg Trp Ile Glu Gln Leu Lys Thr Val Ala
50 55 60

Gly Ser Lys Met Gln Thr Leu Leu Glu Asp Val Asn Thr Glu Ile His
65 70 75 80

Phe Val Thr Ser Cys Thr Phe Gln Pro Leu Pro Glu Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn Ile Ser His Leu Leu Lys Asp Thr Cys Thr Gln Leu
100 105 110

Leu Ala Leu Lys Pro Cys Ile Gly Lys Ala Cys Gln Asn Phe Ser Arg
115 120 125

Cys Leu Glu Val Gln Cys Gln Pro Asp Ser Ser Thr Leu Leu Pro Pro
130 135 140

Arg Ser Pro Ile Ala Leu Glu Ala Thr Glu Leu Pro Glu Pro Arg
145 150 155

<210> 99
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> SITE
<222> (1)..(20)
<223> /note="This sequence may encompass 3-4 'Gly Gly Gly Gly Ser' repeating units"

<400> 99
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser
 20

<210> 100
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 100
Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro
1 5 10

<210> 101
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 101

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
1 5 10 15

<210> 102

<211> 232

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 102

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
1 5 10 15

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
20 25 30

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
35 40 45

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
50 55 60

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
65 70 75 80

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
85 90 95

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

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
115 120 125

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
130 135 140

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
145 150 155 160

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
165 170 175

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
180 185 190

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
195 200 205

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
210 215 220

Ser Leu Ser Leu Ser Pro Gly Lys
225 230

<210> 103

<211> 212

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 103

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

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

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
35 40 45

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
50 55 60

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
65 70 75 80

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
85 90 95

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
100 105 110

Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
115 120 125

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
130 135 140

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
145 150 155 160

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
165 170 175

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
180 185 190

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
195 200 205

Ser Pro Gly Lys
210

<210> 104

<211> 212

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 104

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

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

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu

35

40

45

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 50 55 60

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 65 70 75 80

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 85 90 95

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 100 105 110

Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
 115 120 125

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 130 135 140

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 145 150 155 160

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 165 170 175

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 180 185 190

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 195 200 205

Ser Pro Gly Lys
 210

<210> 105

<211> 229

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 105

Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe
1 5 10 15

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

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
35 40 45

Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val
50 55 60

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser
65 70 75 80

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
85 90 95

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser
100 105 110

Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
115 120 125

Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln
130 135 140

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

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
165 170 175

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu
180 185 190

Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser
195 200 205

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
210 215 220

Leu Ser Leu Gly Lys
225

<210> 106
<211> 229
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 106
Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Ala
1 5 10 15

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

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
35 40 45

Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val
50 55 60

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser
65 70 75 80

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
85 90 95

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser
100 105 110

Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
115 120 125

Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln

130

135

140

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

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
 165 170 175

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu
 180 185 190

Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser
 195 200 205

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
 210 215 220

Leu Ser Leu Gly Lys
 225

<210> 107

<211> 229

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 107

Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe
 1 5 10 15

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

Leu Tyr Ile Thr Arg Glu Pro Glu Val Thr Cys Val Val Val Asp Val
 35 40 45

Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val
 50 55 60

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser
65 70 75 80

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
85 90 95

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser
100 105 110

Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
115 120 125

Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln
130 135 140

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

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
165 170 175

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu
180 185 190

Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser
195 200 205

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
210 215 220

Leu Ser Leu Gly Lys
225

<210> 108

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 108

Arg Arg Cys Pro Leu Tyr Ile Ser Tyr Asp Pro Val Cys Arg Arg
1 5 10 15

<210> 109

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 109

Arg Arg Arg Arg Cys Pro Leu Tyr Ile Ser Tyr Asp Pro Val Cys Arg
1 5 10 15

Arg Arg Arg

<210> 110

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 110

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
1 5 10 15

Pro Glu Leu Leu
20