

SEQUENCE LISTING

<110> Genzyme Corporation
MORGAN, Christopher
ZHANG, Xiaokui

<120> METHODS FOR THE QUANTITATION OF
POLYPEPTIDES

<130> 18395-20282.40

<140> Not Yet Assigned

<141> Concurrently Herewith

<150> US 62/617,080

<151> 2018-01-12

<160> 39

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 225

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 1

Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
1				5					10					15	
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
			20					25					30		
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Asp	Val	Ser	His	Glu	Asp	
	35					40				45					
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn
	50				55					60					
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val
65					70				75					80	
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu
			85					90					95		
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys
	100							105					110		
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr
	115					120						125			
Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr
	130					135					140				

Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu
145					150					155					160
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu
				165					170						175
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys
			180					185					190		
Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu
	195						200					205			
Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly
	210					215						220			
Lys															
225															

<210> 2
 <211> 224
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 2

Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
1				5				10					15		
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
			20					25					30		
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp
		35					40					45			
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn
	50					55				60					
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val
65					70					75					80
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu
				85					90					95	
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys
		100						105					110		
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr
		115				120						125			
Leu	Pro	Pro	Cys	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Trp
	130					135					140				
Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu
145					150					155					160
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu
				165					170						175
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys
			180					185					190		
Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Leu	His	Glu
	195						200					205			

Ala	Leu	His	Ser	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly
210						215					220				

<210> 3
 <211> 224
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
1			5					10					15		
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
		20					25						30		
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp
		35				40						45			
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn
	50				55					60					
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val
65				70					75					80	
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu
			85					90					95		
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys
			100				105						110		
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Cys	Thr
		115				120						125			
Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Ser
	130				135					140					
Cys	Ala	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu
145				150					155					160	
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu
			165					170						175	
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Val	Ser	Lys	Leu	Thr	Val	Asp	Lys
		180				185						190			
Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Leu	His	Glu
	195				200					205					
Ala	Leu	His	Ser	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly
210						215					220				

<210> 4
 <211> 225
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 4

Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
1				5				10					15		
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
			20					25					30		
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp
		35					40					45			
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn
	50					55					60				
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val
65					70					75				80	
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu
				85					90					95	
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys
			100					105					110		
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Cys	Thr
		115					120					125			
Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Ser
	130					135					140				
Cys	Ala	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu
145					150					155					160
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu
				165					170					175	
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Val	Ser	Lys	Leu	Thr	Val	Asp	Lys
		180					185						190		
Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu
	195						200					205			
Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly
	210					215						220			
Lys															
225															

<210> 5

<211> 224

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 5

Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
1				5				10					15		
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
			20					25					30		
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp

Lys

<210> 8
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 8
Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val
1 5 10

<210> 9
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 9
Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val Asp
1 5 10

<210> 10
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 10
Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
1 5 10

<210> 11
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 11

Ala Leu His Ser His Tyr Thr Gln Lys
1 5

<210> 12

<211> 611

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 12

Glu Val Arg Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ser Ala Ser Gly Phe Asp Phe Asp Asn Ala
20 25 30
Trp Met Thr Trp Val Arg Gln Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Gly Arg Ile Thr Gly Pro Gly Glu Gly Trp Ser Val Asp Tyr Ala Glu
50 55 60
Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Asn Thr
65 70 75 80
Leu Tyr Leu Glu Met Asn Asn Val Arg Thr Glu Asp Thr Gly Tyr Tyr
85 90 95
Phe Cys Ala Arg Thr Gly Lys Tyr Tyr Asp Phe Trp Ser Gly Tyr Pro
100 105 110
Pro Gly Glu Glu Tyr Phe Gln Asp Trp Gly Gln Gly Thr Leu Val Ile
115 120 125
Val Ser Ser Asp Lys Thr His Thr Gln Val His Leu Thr Gln Ser Gly
130 135 140
Pro Glu Val Arg Lys Pro Gly Thr Ser Val Lys Val Ser Cys Lys Ala
145 150 155 160
Pro Gly Asn Thr Leu Lys Thr Tyr Asp Leu His Trp Val Arg Ser Val
165 170 175
Pro Gly Gln Gly Leu Gln Trp Met Gly Trp Ile Ser His Glu Gly Asp
180 185 190
Lys Lys Val Ile Val Glu Arg Phe Lys Ala Lys Val Thr Ile Asp Trp
195 200 205
Asp Arg Ser Thr Asn Thr Ala Tyr Leu Gln Leu Ser Gly Leu Thr Ser
210 215 220
Gly Asp Thr Ala Val Tyr Tyr Cys Ala Lys Gly Ser Lys His Arg Leu
225 230 235 240
Arg Asp Tyr Ala Leu Tyr Asp Asp Asp Gly Ala Leu Asn Trp Ala Val
245 250 255
Asp Val Asp Tyr Leu Ser Asn Leu Glu Phe Trp Gly Gln Gly Thr Ala

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 13

Asp	Phe	Val	Leu	Thr	Gln	Ser	Pro	His	Ser	Leu	Ser	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Ser	Ala	Ser	Ile	Ser	Cys	Lys	Ser	Ser	His	Ser	Leu	Ile	His	Gly
			20					25					30		
Asp	Arg	Asn	Asn	Tyr	Leu	Ala	Trp	Tyr	Val	Gln	Lys	Pro	Gly	Arg	Ser
		35					40					45			
Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Ala	Ser	Ser	Arg	Ala	Ser	Gly	Val	Pro
	50					55					60				
Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Asp	Lys	Asp	Phe	Thr	Leu	Lys	Ile
65				70					75					80	
Ser	Arg	Val	Glu	Thr	Glu	Asp	Val	Gly	Thr	Tyr	Tyr	Cys	Met	Gln	Gly
				85					90					95	
Arg	Glu	Ser	Pro	Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Asp	Ile	Lys
			100					105					110		
Asp	Lys	Thr	His	Thr	Ala	Ser	Glu	Leu	Thr	Gln	Asp	Pro	Ala	Val	Ser
	115						120					125			
Val	Ala	Leu	Lys	Gln	Thr	Val	Thr	Ile	Thr	Cys	Arg	Gly	Asp	Ser	Leu
	130					135					140				
Arg	Ser	His	Tyr	Ala	Ser	Trp	Tyr	Gln	Lys	Lys	Pro	Gly	Gln	Ala	Pro
145					150					155					160
Val	Leu	Leu	Phe	Tyr	Gly	Lys	Asn	Asn	Arg	Pro	Ser	Gly	Ile	Pro	Asp
			165						170					175	
Arg	Phe	Ser	Gly	Ser	Ala	Ser	Gly	Asn	Arg	Ala	Ser	Leu	Thr	Ile	Thr
			180					185					190		
Gly	Ala	Gln	Ala	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ser	Ser	Arg	Asp
		195					200					205			
Lys	Ser	Gly	Ser	Arg	Leu	Ser	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr
	210					215					220				
Val	Leu	Asp	Lys	Thr	His	Thr	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe
225					230					235					240
Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val
				245					250					255	
Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp
			260					265					270		
Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr
		275					280					285			
Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr
	290					295						300			
Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val
305					310					315					320
Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly
				325						330				335	

Glu Cys

<210> 14

<211> 450

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 14

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Gly	Gln	Met	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Met	Arg	Ile	Ser	Cys	Arg	Ala	Ser	Gly	Tyr	Glu	Phe	Ile	Asp	Cys
			20					25					30		
Thr	Leu	Asn	Trp	Ile	Arg	Leu	Ala	Pro	Gly	Lys	Arg	Pro	Glu	Trp	Met
		35					40					45			
Gly	Trp	Leu	Lys	Pro	Arg	Gly	Gly	Ala	Val	Asn	Tyr	Ala	Arg	Pro	Leu
	50					55					60				
Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Val	Tyr	Ser	Asp	Thr	Ala	Phe
65					70					75					80
Leu	Glu	Leu	Arg	Ser	Leu	Thr	Val	Asp	Asp	Thr	Ala	Val	Tyr	Phe	Cys
				85				90						95	
Thr	Arg	Gly	Lys	Asn	Cys	Asp	Tyr	Asn	Trp	Asp	Phe	Glu	His	Trp	Gly
			100					105					110		
Arg	Gly	Thr	Pro	Val	Ile	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
		115					120					125			
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala
	130					135					140				
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val
145					150					155					160
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala
				165					170					175	
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val
		180						185					190		
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His
		195					200					205			
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
	210					215					220				
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
225					230					235					240
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
				245					250					255	
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
			260					265					270		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
		275					280					285			

His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
290						295					300				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
305					310					315					320
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
				325					330					335	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
			340					345					350		
Cys	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
		355				360						365			
Leu	Ser	Cys	Ala	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
	370					375					380				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Val	Ser	Lys	Leu	Thr	Val
				405					410					415	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Leu
			420					425				430			
His	Glu	Ala	Leu	His	Ser	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
		435					440					445			
Pro	Gly														
	450														

<210> 15

<211> 210

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 15

Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Gly	Thr	Leu	Ser	Leu	Ser	Pro	Gly
1				5				10						15	
Glu	Thr	Ala	Ile	Ile	Ser	Cys	Arg	Thr	Ser	Gln	Tyr	Gly	Ser	Leu	Ala
		20						25				30			
Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Val	Ile	Tyr	Ser
		35				40					45				
Gly	Ser	Thr	Arg	Ala	Ala	Gly	Ile	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Arg
	50					55			60						
Trp	Gly	Pro	Asp	Tyr	Asn	Leu	Thr	Ile	Ser	Asn	Leu	Glu	Ser	Gly	Asp
65					70				75					80	
Phe	Gly	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Glu	Phe	Phe	Gly	Gln	Gly	Thr
			85					90					95		
Lys	Val	Gln	Val	Asp	Ile	Lys	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe
			100					105					110		
Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val
		115					120					125			

Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp
	130					135					140				
Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr
145					150					155					160
Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr
				165					170					175	
Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val
			180					185					190		
Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly
		195					200						205		
Glu	Cys														
	210														

<210> 16
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 16
 Leu Val Ile Tyr Ser Gly Ser Thr Arg
 1 5

<210> 17
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 17
 Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
 1 5 10

<210> 18
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 18

Asp Thr Leu Met Ile Ser Arg
1 5

<210> 19
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 19
Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
1 5 10 15
Lys

<210> 20
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 20
Leu Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Val
1 5 10 15
Ser Lys

<210> 21
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 21
Gly Gly Gly Gly
1

<210> 22
<211> 5

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 22
Gly Gly Gly Gly Gly
1 5

<210> 23
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 23
Gly Gly Gly Gly Gly Gly
1 5

<210> 24
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 24
Gly Gly Gly Gly Gly Gly Gly
1 5

<210> 25
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 25
Gly Gly Gly Gly Gly Gly Gly Gly
1 5

<210> 26
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 26
Gly Gly Gly Gly Ser
1 5

<210> 27
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 27
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10

<210> 28
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 28
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 29
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 29

Thr Lys Gly Pro Ser
1 5

<210> 30
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 30
Thr Val Ala Ala Pro
1 5

<210> 31
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 31
Gln Arg Ile Glu Gly
1 5

<210> 32
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 32
Arg Thr Val Ala Ala Pro Ser
1 5

<210> 33
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 33

Gly Gln Pro Lys Ala Ala Pro
1 5

<210> 34

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 34

His Ile Asp Ser Pro Asn Lys
1 5

<210> 35

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 35

Asp Lys Thr His Thr
1 5

<210> 36

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 36

Thr Lys Gly Pro Ser Arg
1 5

<210> 37

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 37

Ala Ser Thr Lys Gly Pro Ser
1 5

<210> 38

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 38

Glu Ser Pro Trp Thr Phe Gly Gln Gly Thr Lys
1 5 10

<210> 39

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 39

Gln Pro Lys Ala Ala
1 5