

序列表

<110> 正大天晴药业集团股份有限公司

<120> 结合CD47的抗原结合多肽及用途

<160> 198

<170> SIPOSequenceListing 1.0

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Gly	Phe	Ser	Leu	Thr	Asn	Tyr	Gly	Val	His
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<213> Mus musculus

<400> 2

Gly	Phe	Thr	Phe	Ser	Asn	Tyr	Tyr	Met	Ser
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<400> 4

Gly	Tyr	Thr	Phe	Ser	Arg	Tyr	Trp	Ile	Glu
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<213> Mus musculus

<400> 5

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1 5

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Tyr Ile Ser Ser Gly Gly Gly Ser Thr Tyr
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<210> 8
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Trp Ile Asn Thr Asn Thr Gly Glu Pro Thr
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Glu Phe Ile Pro Gly Ser Asp Thr
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Arg Ile Asp Pro Ala Asn Asp Lys Thr Lys
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<400> 11
Asp Asp Tyr Ala Ser Met Asp Tyr
1 5

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<400> 12
Phe Ala Tyr
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<400> 13
Phe Ser His Leu Arg Gly Pro Met Asp Tyr
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Gly Gly Leu Arg Arg Met Asp Tyr
1 5

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<400> 15
Pro Gly Leu Arg Arg Tyr Tyr Ser Met Asp Tyr
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<210> 16
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<400> 16
Arg Ser Ser Gln Ser Leu Val His Ser Asn Gly Asn Thr Tyr Leu His
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Lys Ser Ser Gln Ser Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn
1 5 10 15

<210> 18
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<212> PRT
<213> Mus musculus

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Arg Ser Ser Gln Ser Leu Val His Ser Asn Gly Tyr Thr Tyr Leu His
1 5 10 15

<210> 19
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Arg Ala Ser Ser Ser Val Ser Ser Thr Tyr Leu His
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<400> 20
Lys Ala Ser Glu Asn Val Val Ser Tyr Val Ser
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Lys Val Ser Asn Arg Phe Ser
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Leu Val Ser Lys Leu Asp Ser
1 5

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Lys Val Ser Asn Arg Phe Ser
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Thr Thr Ser Thr Leu Ala Ser
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Gly Ala Ser Asn Arg Tyr Thr
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Ser Gln Ser Thr His Val Pro Tyr Thr
1 5

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<400> 27
Gly Thr His Phe Pro Leu Thr
1 5

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Ser Gln Ser Thr His Val Pro Pro Thr
1 5

<210> 29
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<400> 29
Gln Gln Phe Ser Asp Ser Thr Trp Thr
1 5

<210> 30
<211> 9
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<213> Mus musculus

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Gly Gln Ser Tyr Ser Tyr Pro Leu Thr
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<210> 31
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<213> 人工序列(Artificial Sequence)

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Gln Gln Phe Ser Glu Ser Thr Trp Thr
1 5

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<213> 人工序列(Artificial Sequence)

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<213> Mus musculus

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

Thr Val Ser Ser
115

<210> 34
<211> 112
<212> PRT
<213> Mus musculus

<400> 34
Asp Ala Phe Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
85 90 95
Thr His Val Pro Tyr Thr Leu Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 35
<211> 119
<212> PRT
<213> Mus musculus

<400> 35
Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
1 5 10 15
Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30
Gly Met Asn Trp Val Lys Gln Val Pro Gly Lys Gly Leu Lys Trp Met
35 40 45
Gly Trp Ile Asn Thr Asn Thr Gly Glu Pro Thr Tyr Ala Glu Glu Phe
50 55 60
Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Arg Thr Ala Phe
65 70 75 80
Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Thr Ala Thr Tyr Phe Cys
85 90 95
Thr Arg Phe Ser His Leu Arg Gly Pro Met Asp Tyr Trp Gly Gln Gly
100 105 110
Ala Ser Val Thr Val Ser Ser
115

<210> 36
<211> 112
<212> PRT
<213> Mus musculus

<400> 36
Asp Ala Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly

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

<210> 37
 <211> 112
 <212> PRT
 <213> Mus musculus

<400> 37
Glu Val Met Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
20 25 30
Tyr Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45
Ala Tyr Ile Ser Ser Gly Gly Gly Ser Thr Tyr Tyr Pro Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys
85 90 95
Ala Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
100 105 110

<210> 38
 <211> 112
 <212> PRT
 <213> Mus musculus

<400> 38
Asp Ala Val Val Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile Gly
1 5 10 15
Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30
Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser
35 40 45
Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
50 55 60
Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly
85 90 95
Thr His Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys

100

105

110

<210> 39
 <211> 117
 <212> PRT
 <213> Mus musculus

<400> 39
 Glu Val Gln Leu Gln Gln Ser Val Ala Glu Leu Met Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Tyr Cys Lys Ala Thr Gly Tyr Thr Phe Ser Arg Tyr
 20 25 30
 Trp Ile Glu Trp Val Lys Gln Arg Pro Gly His Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Phe Asn Glu Lys Phe
 50 55 60
 Lys Gly Lys Ala Thr Phe Thr Ala Glu Ile Ser Ser Asn Thr Ala Tyr
 65 70 75 80
 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
 85 90 95
 Ala Arg Gly Gly Leu Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr Ser
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 40
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 40
 Asp Ile Val Met Thr Gln Thr Pro Ala Ile Met Ser Ala Ser Pro Gly
 1 5 10 15
 Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
 20 25 30
 Tyr Leu His Trp Tyr Gln Gln Lys Ser Gly Ala Ser Pro Lys Leu Trp
 35 40 45
 Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ala Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Val Glu
 65 70 75 80
 Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Asp Ser Thr
 85 90 95
 Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 41
 <211> 120
 <212> PRT
 <213> Mus musculus

<400> 41
 Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Val Ala Arg Pro Gly Ala
 1 5 10 15

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

<210> 42
 <211> 107
 <212> PRT
 <213> Mus musculus

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

<210> 43
 <211> 117
 <212> PRT
 <213> 人工序列(Artificial Sequence)

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

Ala	Arg	Gly	Gly	Leu	Arg	Arg	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu
			100					105					110		
Val	Thr	Val	Ser	Ser											
			115												

<210> 44
 <211> 108
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 44															
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5				10						15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Ser	Ser	Val	Ser	Ser	Thr
			20					25					30		
Tyr	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Thr	Thr	Ser	Thr	Leu	Ala	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Phe	Ser	Asp	Ser	Thr
				85					90					95	
Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys				
			100					105							

<210> 45
 <211> 117
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 45															
Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Ser	Arg	Tyr
			20					25					30		
Trp	Ile	Glu	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
	35						40					45			
Gly	Glu	Phe	Ile	Pro	Gly	Ser	Asp	Thr	Thr	Asn	Tyr	Ala	Gln	Lys	Phe
	50					55				60					
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Ile	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Gly	Gly	Leu	Arg	Arg	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu
			100					105					110		
Val	Thr	Val	Ser	Ser											
			115												

<210> 46
 <211> 108
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 46

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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1           5           10           15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
          20           25           30
Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
          35           40           45
Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
          50           55           60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65           70           75           80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Glu Ser Thr
          85           90           95
Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
          100          105
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<210> 47

<211> 117

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 47

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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1           5           10           15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
          20           25           30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
          35           40           45
Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe
          50           55           60
Gln Gly Arg Val Thr Ile Thr Ala Asp Ile Ser Thr Ser Thr Ala Tyr
65           70           75           80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
          85           90           95
Ala Arg Gly Gly Leu Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr Leu
          100          105          110
Val Thr Val Ser Ser
          115
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<210> 48

<211> 108

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 48

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

<210> 49
 <211> 117
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 49															
Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Ser	Arg	Tyr
			20				25						30		
Trp	Ile	Glu	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Glu	Phe	Ile	Pro	Gly	Ser	Asp	Thr	Thr	Asn	Tyr	Ala	Gln	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Ile	Ser	Thr	Ser	Thr	Ala	Tyr
65					70				75						80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Gly	Gly	Leu	Arg	Arg	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu
			100					105					110		
Val	Thr	Val	Ser	Ser											
			115												

<210> 50
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 <213> 人工序列(Artificial Sequence)

<400> 50															
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Ser	Ser	Val	Ser	Ser	Thr
			20					25					30		
Tyr	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Thr	Thr	Ser	Thr	Leu	Ala	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Ser	Tyr	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70				75						80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Phe	Ser	Glu	Ser	Thr
			85						90					95	
Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys				
			100					105							

<210> 51
 <211> 117
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 51

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

<210> 52

<211> 108

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 52

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

<210> 53

<211> 117

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 53

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Ser	Arg	Tyr
			20					25						30	
Trp	Ile	Glu	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Glu	Phe	Ile	Pro	Gly	Ser	Asp	Thr	Thr	Asn	Tyr	Ala	Gln	Lys	Phe
	50					55				60					

Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Ile	Ser	Thr	Ser	Thr	Ala	Tyr
65					70				75						80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Gly	Gly	Leu	Arg	Arg	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu
			100					105					110		
Val	Thr	Val	Ser	Ser											
			115												

<210> 54
 <211> 108
 <212> PRT
 <213> 人工序列(Artificial Sequence)

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

<210> 55
 <211> 117
 <212> PRT
 <213> 人工序列(Artificial Sequence)

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

<210> 56

<211> 108
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 56
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
20 25 30
Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45
Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Asp Ser Thr
85 90 95
Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 57
<211> 117
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 57
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
20 25 30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Ile Thr Ala Glu Ile Ser Thr Asn Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Gly Gly Leu Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 58
<211> 108
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 58
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
20 25 30
Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu

<210> 61
<211> 117
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 61
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
20 25 30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Ile Thr Ala Glu Ile Ser Thr Asn Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Gly Gly Leu Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 62
<211> 108
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 62
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
20 25 30
Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45
Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Ser Tyr Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Glu Ser Thr
85 90 95
Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 63
<211> 117
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 63
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
20 25 30

Trp	Ile	Glu	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Glu	Phe	Ile	Pro	Gly	Ser	Asp	Thr	Thr	Asn	Tyr	Ala	Gln	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Glu	Ile	Ser	Thr	Asn	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Gly	Gly	Leu	Arg	Arg	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu
			100					105					110		
Val	Thr	Val	Ser	Ser											
			115												

<210> 64

<211> 108

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 64

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

<210> 65

<211> 117

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 65

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

Val Thr Val Ser Ser
115

<210> 66
<211> 108
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 66
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
20 25 30
Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Trp
35 40 45
Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Ser Tyr Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Glu Ser Thr
85 90 95
Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 67
<211> 119
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 67
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30
Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Trp Ile Asn Thr Asn Thr Gly Glu Pro Thr Tyr Ala Gln Lys Leu
50 55 60
Gln Gly Arg Val Thr Met Thr Leu Asp Thr Ser Thr Arg Thr Ala Tyr
65 70 75 80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Phe Ser His Leu Arg Gly Pro Met Asp Tyr Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 68
<211> 112
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 68
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly

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

<210> 69

<211> 119

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 69

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

<210> 70

<211> 112

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 70

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

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

<210> 74
 <211> 112
 <212> PRT
 <213> 人工序列(Artificial Sequence)

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

<210> 75
 <211> 119
 <212> PRT
 <213> 人工序列(Artificial Sequence)

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

Met	Glu	Leu	Arg	Ser	Leu	Arg	Ser	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Phe	Ser	His	Leu	Arg	Gly	Pro	Met	Asp	Tyr	Trp	Gly	Gln	Gly
			100					105					110		
Thr	Leu	Val	Thr	Val	Ser	Ser									
			115												

<210> 76

<211> 112

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 76

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

<210> 77

<211> 119

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 77

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

<210> 78

<211> 112

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 78

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

<210> 79

<211> 120

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 79

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

<210> 80

<211> 107

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 80

```
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1          5          10          15
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Glu Asn Val Val Ser Tyr
          20          25          30
Val Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
          35          40          45
Tyr Gly Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ile Gly
```

50		55		60
Ser Gly Ser Ser Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro				
65		70		75
Glu Asp Phe Ala Thr Tyr Tyr Cys Gly Gln Ser Tyr Ser Tyr Pro Leu				80
	85		90	95
Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys				
	100		105	

<210> 81
 <211> 120
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 81
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Val Ser Gly Phe Asn Ile Glu Asp Asp
20 25 30
Tyr Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Arg Ile Asp Pro Ala Asn Asp Lys Thr Lys Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Met Thr Gly Asp Thr Ser Thr Asn Thr Val Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Thr Arg Pro Gly Leu Arg Arg Tyr Tyr Ser Met Asp Tyr Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 82
 <211> 107
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 82
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Glu Asn Val Val Ser Tyr
20 25 30
Val Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45
Tyr Gly Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ile Gly
50 55 60
Ser Gly Ser Ser Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80
Glu Asp Phe Ala Thr Tyr Tyr Cys Gly Gln Ser Tyr Ser Tyr Pro Leu
85 90 95
Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 83
 <211> 117

<212> PRT
<213> 人工序列(Artificial Sequence)

<220>
<221> UNSURE
<222> (73)
<223> Xaa is D or E

<220>
<221> UNSURE
<222> (74)
<223> Xaa is I or E

<220>
<221> UNSURE
<222> (77)
<223> Xaa is S or N

<400> 83
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
20 25 30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Ile Thr Ala Xaa Xaa Ser Thr Xaa Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Gly Gly Leu Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 84
<211> 108
<212> PRT
<213> 人工序列(Artificial Sequence)

<220>
<221> UNSURE
<222> (48)
<223> Xaa is L or W

<220>
<221> UNSURE
<222> (71)
<223> Xaa is D or S

<220>
<221> UNSURE
<222> (72)
<223> Xaa is F or Y

<220>
<221> UNSURE
<222> (94)
<223> Xaa is D or E

<400> 84
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
20 25 30
Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Xaa
35 40 45
Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Xaa Xaa Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Xaa Ser Thr
85 90 95
Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 85
<211> 119
<212> PRT
<213> 人工序列(Artificial Sequence)

<220>
<221> UNSURE
<222> (46)
<223> Xaa is E or K

<220>
<221> UNSURE
<222> (63)
<223> Xaa is E or K

<220>
<221> UNSURE
<222> (72)
<223> Xaa is L or T

<220>

<221> UNSURE
<222> (77)
<223> Xaa is R or S

<220>
<221> UNSURE
<222> (97)
<223> Xaa is A or T

<400> 85
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30
Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Xaa Trp Met
35 40 45
Gly Trp Ile Asn Thr Asn Thr Gly Glu Pro Thr Tyr Ala Gln Xaa Leu
50 55 60
Gln Gly Arg Val Thr Met Thr Xaa Asp Thr Ser Thr Xaa Thr Ala Tyr
65 70 75 80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Xaa Arg Phe Ser His Leu Arg Gly Pro Met Asp Tyr Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 86
<211> 112
<212> PRT
<213> 人工序列(Artificial Sequence)

<220>
<221> UNSURE
<222> (2)
<223> Xaa is I or A

<400> 86
Asp Xaa Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Tyr Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
65 70 75 80
Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Ser Gln Ser
85 90 95
Thr His Val Pro Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys

100

105

110

<210> 87
 <211> 120
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<220>
 <221> UNSURE
 <222> (24)
 <223> Xaa is A or V

<220>
 <221> UNSURE
 <222> (72)
 <223> Xaa is R or G

<220>
 <221> UNSURE
 <222> (77)
 <223> Xaa is S or N

<220>
 <221> UNSURE
 <222> (97)
 <223> Xaa is A or T

<400> 87
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Xaa Ser Gly Phe Asn Ile Glu Asp Asp
 20 25 30
 Tyr Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Arg Ile Asp Pro Ala Asn Asp Lys Thr Lys Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Xaa Asp Thr Ser Thr Xaa Thr Val Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Xaa Arg Pro Gly Leu Arg Arg Tyr Tyr Ser Met Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 88
 <211> 107
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<220>
 <221> UNSURE
 <222> (63)
 <223> Xaa is S or I

<220>
 <221> UNSURE
 <222> (68)
 <223> Xaa is S or G

<400> 88
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Glu Asn Val Val Ser Tyr
 20 25 30
 Val Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Gly Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Xaa Gly
 50 55 60
 Ser Gly Ser Xaa Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gly Gln Ser Tyr Ser Tyr Pro Leu
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 89
 <211> 443
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 89
 Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
 1 5 10 15
 Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Asn Tyr
 20 25 30
 Gly Val His Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45
 Gly Ile Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asn Ser Ala Leu Met
 50 55 60
 Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
 65 70 75 80
 Lys Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Met Tyr Tyr Cys Ala
 85 90 95
 Arg Asp Asp Tyr Ala Ser Met Asp Tyr Trp Gly Gln Gly Thr Ser Val
 100 105 110
 Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
 115 120 125
 Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu
 130 135 140
 Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly
 145 150 155 160

Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	
				165					170					175		
Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	
			180					185					190			
Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn	Thr	
		195					200					205				
Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	
	210					215					220					
Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	
225					230				235						240	
Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	
				245					250					255		
Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	
			260					265					270			
Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	
		275					280					285				
Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	
	290					295					300					
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	
305					310				315						320	
Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	
				325				330						335		
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	
			340					345					350			
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	
	355					360					365					
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	
	370					375					380					
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	
385					390				395						400	
Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	
				405				410						415		
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	
			420					425					430			
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys						
		435					440									

<210> 90

<211> 1332

<212> DNA

<213> 人工序列(Artificial Sequence)

<400> 90

caggtgcagc	tgaaggagtc	tgaccagga	ctggtggctc	catctcagtc	cctgagcatc	60
acctgcacag	tgtccggctt	cagcctgacc	aactacggag	tgcactgggt	gaggcagcca	120
cctggcaagg	gactggagtg	gctgggcatc	atctgggctg	gcggtccac	aaactataat	180
tctgccctga	tgtccggct	gtctatctcc	aaggacaaca	gcaagtctca	ggtgtttctg	240
aagatgaata	gcctgcagac	cgacgataca	gccatgtact	attgtgctag	ggacgattac	300
gccagcatgg	attattgggg	ccagggcacc	tctgtgacag	tgtccagcgc	ctctacaaag	360
ggcccttccg	tgttcccact	ggctccctgc	tccagaagca	catctgagtc	caccgccgct	420
ctgggctgtc	tggtgaagga	ctacttcct	gagccagtga	ccgtgtcctg	gaacagcggc	480
gccctgacat	ctggcgtgca	cacctttcca	gctgtgctgc	agtccagcgg	cctgtactcc	540
ctgtcttccg	tggtgacagt	gcccagctct	tccctgggca	ccaagacata	tacctgcaac	600
gtggaccata	agccttccaa	taccaaggtg	gataagaggg	tggagagcaa	gtacggacca	660

ccttgccac	catgtccagc	tcctgagttt	ctgggaggac	catccgtgtt	cctgtttcct	720
ccaaagccta	aggacaccct	gatgatcagc	cggacacctg	aggtgacctg	cgtggtggtg	780
gacgtgtctc	aggaggatcc	agaggtgcag	ttcaactggt	acgtggatgg	cgtggaggtg	840
cacaatgcta	agaccaagcc	aagagaggag	cagtttaatt	ccacataaccg	cgtggtgagc	900
gtgctgaccg	tgtgcatca	ggattggctg	aacggcaagg	agtataagtg	caaggtgtcc	960
aataagggcc	tgcccagctc	tatcgagaag	acaatcagca	aggctaaggg	acagcctagg	1020
gagccacagg	tgtacaccct	gcccccttct	caggaggaga	tgacaaagaa	ccaggtgtcc	1080
ctgacctgtc	tggtgaaggg	cttctatcca	agcgacatcg	ctgtggagtg	ggagtctaata	1140
ggccagcccc	agaacaatta	caagaccaca	ccacccgtgc	tggactctga	tggctccttc	1200
tttctgtatt	ctaggctgac	agtggataag	tcccgggtggc	aggagggcaa	cgtgttttagc	1260
tgctctgtga	tgcacgaggc	cctgcacaat	cattataccc	agaagtcctt	gagcctgtct	1320
ctgggcaagt	ga					1332

<210> 91

<211> 219

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 91

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

<210> 92

<211> 660

<212> DNA

<213> 人工序列(Artificial Sequence)

<400> 92

gacgccttca	tgaccagac	accactgtcc	ctgcctgtga	gcctgggcga	tcaggcttct	60
atctcctgca	gatccagcca	gtctctggtg	cactccaacg	gcaatacata	cctgcattgg	120
tatctgcaga	agccaggcca	gtccccaag	ctgctgatct	acaaggtgag	caacaggttc	180
tctggcgtgc	ctgaccggtt	tagcggctct	ggctccggca	ccgatttcac	actgaagatc	240
tccaggggtg	aggctgagga	cctgggcgtg	tacttttcta	gccagtctac	ccacgtgcc	300
tatacactgg	gcggcggcac	caagctggag	atcaagcgta	cggtggccgc	tcccagcgtg	360
ttcatctttc	ccccttctga	cgagcagctg	aagtctggca	ccgcttccgt	ggtgtgcctg	420
ctgaacaatt	tctaccccag	agaggccaag	gtgcagtgga	aggtggataa	cgctctgcag	480
tccggcaata	gccaggagtc	tgtgaccgag	caggactcca	aggatagcac	atattctctg	540
tcttccaccc	tgacactgtc	taaggccgac	tacgagaagc	acaaggtgta	tgcttgcgag	600
gtgacccatc	agggcctgag	ctctcctgtg	acaaagtcct	ttaatcgcgg	cgagtgttga	660

<210> 93

<211> 446

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 93

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

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

<210> 94
 <211> 1341
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 94	
gaggtgcagc tgcagcagtc tggccccgag ctgaagaagc ctggcgagac cgtgaagatc	60
tcttgcaagg cctccggcta caccttcaca aactatggca tgaattgggt gaagcaggtg	120
ccaggcaagg gcctgaagtg gatgggctgg atcaacacca atacaggcga gccacatac	180
gccgaggagt tcaagggcag attcgctttt agcctggaga cctctgcccg cacagctttt	240
ctgcagatca acaatctgaa gaacgaggac accgccacat acttctgtac caggttttcc	300
cacctgcggg gccccatgga ttattggggc cagggcgcta gcgtgacagt gtccagcgcc	360
tctacaaagg gcccttccgt gttcccactg gctccctgct ccagaagcac atctgagtcc	420
accgccgtc tgggctgtct ggtgaaggac tacttccctg agccagtgc cgtgtcctgg	480
aacagcggcg ccctgacatc tggcgtgcac acctttccag ctgtgctgca gtccagcggc	540
ctgtactccc tgtcttccgt ggtgacagtg cccagctctt ccctgggcac caagacatat	600
acctgcaacg tggaccataa gccttccaat accaaggtgg ataagagggt ggagagcaag	660
tacggaccac cttgccacc atgtccagct cctgagtttc tgggaggacc atccgtgttc	720
ctgtttcctc caaagcctaa ggacaccctg atgatcagcc ggacacctga ggtgacctgc	780
gtggtggtgg acgtgtctca ggaggatcca gaggtgcagt tcaactggta cgtggatggc	840
gtggaggtgc acaatgctaa gaccaagcca agagaggagc agtttaattc cacataccgc	900
gtggtgagcg tgctgaccgt gctgcatcag gattggctga acggcaagga gtataagtgc	960
aaggtgtcca ataagggcct gccagctct atcgagaaga caatcagcaa ggctaaggga	1020
cagcctaggg agccacaggt gtacaccctg ccccttctc aggaggagat gacaaagaac	1080
caggtgtccc tgacctgtct ggtgaagggc ttctatccaa gcgacatcgc tgtggagtgg	1140
gagtctaattg gccagccga gaacaattac aagaccacac caccctgtct ggactctgat	1200
ggctccttct ttctgtattc taggctgaca gtggataagt cccggtggca ggagggaac	1260
gtgttttagct gctctgtgat gcacaggcc ctgcacaatc attataccca gaagtccttg	1320
agcctgtctc tgggcaagtg a	1341

<210> 95
 <211> 219
 <212> PRT

<213> 人工序列(Artificial Sequence)

<400> 95

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Asp Ala Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1           5           10           15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
20           25           30
Asn Gly Tyr Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35           40           45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50           55           60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65           70           75           80
Ser Arg Leu Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
85           90           95
Thr His Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100          105          110
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115          120          125
Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130          135          140
Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
145          150          155          160
Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
165          170          175
Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180          185          190
Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195          200          205
Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210          215
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<210> 96

<211> 660

<212> DNA

<213> 人工序列(Artificial Sequence)

<400> 96

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gacgccgtga tgaccagac accactgtcc ctgcccgtga gcctgggcga tcaggcttct 60
atctcctgca gatccagcca gtctctggtg cactccaacg gctacacata tctgcattgg 120
tacctgcaga agcctggcca gtccccaag ctgctgatct ataaggtgag caataggttc 180
tctggagtg cagaccggtt tagcggatct ggatccggca ccgatttcac actgaagatc 240
tccaggctgg aggctgagga cctgggcgtg tacttctgta gccagtctac ccacgtgccc 300
cctacatttg gcggcggcac caagctggag atcaagcgta cggtggccgc tcccagcgtg 360
ttcatctttc ccccttctga cgagcagctg aagtctggca ccgcttccgt ggtgtgcctg 420
ctgaacaatt tctaccccag agaggccaag gtgcagtgga aggtggataa cgctctgcag 480
tccggcaata gccaggagtc tgtgaccgag caggactcca aggatagcac atattctctg 540
tcttccaccc tgacactgtc taaggccgac tacgagaagc acaaggtgta tgcttgcgag 600
gtgacccatc agggcctgag ctctcctgtg acaaagtcct ttaatcgcgg cgagtgttga 660
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<210> 97

<211> 439

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 97

Glu	Val	Met	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1				5					10					15		
Ser	Leu	Lys	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asn	Tyr	
			20					25					30			
Tyr	Met	Ser	Trp	Val	Arg	Gln	Thr	Pro	Glu	Lys	Arg	Leu	Glu	Trp	Val	
		35					40					45				
Ala	Tyr	Ile	Ser	Ser	Gly	Gly	Gly	Ser	Thr	Tyr	Tyr	Pro	Asp	Ser	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Leu	Tyr	
65					70				75						80	
Leu	Gln	Met	Ser	Ser	Leu	Lys	Ser	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	
				85					90					95		
Ala	Trp	Phe	Ala	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ala	
			100					105					110			
Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Cys	Ser	Arg	
		115					120					125				
Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	
	130					135					140					
Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	
145					150				155						160	
Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	
				165					170					175		
Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Lys	Thr	
			180					185					190			
Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	
		195					200					205				
Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	
	210					215					220					
Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	
225					230				235						240	
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	
				245					250					255		
Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	
			260				265						270			
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	
		275					280					285				
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	
	290					295					300					
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	
305					310					315					320	
Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	
				325					330					335		
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	
			340					345					350			
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	
		355					360					365				
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	
	370					375					380					
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	
385					390					395					400	
Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	
				405					410					415		

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
420 425 430
Leu Ser Leu Ser Leu Gly Lys
435

<210> 98
<211> 1320
<212> DNA
<213> 人工序列(Artificial Sequence)

<400> 98
gaagtgatgc tgggtggagag cggaggagga ctggtgcagc caggaggcag cctgaagctg 60
tcttgcgccg cttccggctt caccttttagc aactactata tgtcttgggt gagacagaca 120
cccgagaagc gcctggagtg ggtggcttac atctccagcg gaggaggatc cacctactat 180
cctgacagcg tgaagggcag gttcaccatc tctcgggata acgccaagaa tacactgtac 240
ctgcagatgt cttccctgaa gtccgaggac acagctatgt actattgtgc ctggtttgct 300
tattggggcc agggcaccct ggtgacagtg tctgctgcct ctacaaaggg cccttccgtg 360
ttcccactgg ctccctgctc cagaagcaca tctgagtcca ccgccgtctt gggctgtctg 420
gtgaaggact acttccctga gccagtgcac gtgtcctgga acagcggcgc cctgacatct 480
ggcgtgcaca cttttccagc tgtgctgcag tccagcggcc tgtactccct gtcttccgtg 540
gtgacagtgc ccagctcttc cctgggcacc aagacatata cctgcaacgt ggaccataag 600
ccttccaata ccaaggtgga taagagggtg gagagcaagt acggaccacc ttgcccacca 660
tgtccagctc ctgagtttct gggaggacca tccgtgttcc tgtttcctcc aaagcctaag 720
gacacctga tgatcagccg gacacctgag gtgacctgcg tgggtggtgga cgtgtctcag 780
gaggatccag aggtgcagtt caactggtac gtggatggcg tggaggtgca caatgctaag 840
accaagccaa gagaggagca gtttaattcc acataccgcg tgggtgagcgt gctgaccgtg 900
ctgcatcagg attggctgaa cggcaaggag tataagtga aggtgtccaa taagggcctg 960
cccagctcta tcgagaagac aatcagcaag gctaaggagc agcctaggga gccacaggtg 1020
tacaccctgc ccccttctca ggaggagatg acaaagaacc aggtgtccct gacctgtctg 1080
gtgaagggtc tctatccaag cgacatcgct gtggagtggg agtctaattg ccagcccagag 1140
aacaattaca agaccacacc acccgtgctg gactctgatg gctccttctt tctgtattct 1200
aggctgacag tggataagtc ccggtggcag gagggcaacg tgttttagctg ctctgtgatg 1260
cacgaggccc tgcacaatca ttataccag aagtccctga gcctgtctct gggcaagtga 1320

<210> 99
<211> 219
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 99
Asp Ala Val Val Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile Gly
1 5 10 15
Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30
Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser
35 40 45
Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
50 55 60
Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly
85 90 95
Thr His Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105 110

Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu
		115					120					125			
Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
	130					135					140				
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
145					150					155					160
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
				165					170					175	
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
			180				185						190		
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
		195					200					205			
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys					
		210				215									

<210> 100

<211> 660

<212> DNA

<213> 人工序列(Artificial Sequence)

<400> 100

gacgccgtgg	tgaccagac	accactgacc	ctgtccgtga	caatcggcca	gcccgccttct	60
atctcctgca	agtccagcca	gtcccctgctg	gacagcgatg	gcaagacata	cctgaactgg	120
ctgctgcaga	ggccaggaca	gagccctaag	cggctgatct	atctgggtgtc	taagctggac	180
tccggcgtgc	ctgatagatt	caccggcagc	ggctctggca	ccgactttac	actgaagatc	240
tctcgcgtgg	aggccgagga	tctgggctg	tactattgtt	ggcagggcac	ccacttccca	300
ctgacatttg	gcgctggcac	caagctggag	ctgaagcgta	cgggtggccgc	tcccagcgtg	360
ttcatctttc	ccccttctga	cgagcagctg	aagtctggca	ccgcttccgt	ggtgtgcctg	420
ctgaacaatt	tctaccccag	agaggccaag	gtgcagtgga	aggtggataa	cgctctgcag	480
tccggcaata	gccaggagtc	tgtgaccgag	caggactcca	aggatagcac	atattctctg	540
tcttccaccc	tgacactgtc	taaggccgac	tacgagaagc	acaaggtgta	tgcttgcgag	600
gtgacccatc	agggcctgag	ctctcctgtg	acaaagtcct	ttaatcgcgg	cgagtgttga	660

<210> 101

<211> 444

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 101

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

<400>	102						
gaggtg	cagc	tgcagc	cagtc	tgtggc	ccag	ctgatga	agc
caggc	gcttc	cgtga	agatc	60			
tactg	caagg	ccaccg	gcta	cacatt	cagc	agatatt	gga
tcgag	tgggt	gaagc	agagg	120			
ccagg	acacg	gactgg	agtg	gatcgg	cag	ttcatcc	ctg
gctct	gacac	cacaa	acttc	180			
aatga	gaagt	ttaagg	gcaa	ggccac	cttt	acagct	gaga
tctcc	agcaa	caccg	cttat	240			
atgcag	ctgt	cttcc	ctgac	atccg	aggac	agcgcc	gtgt
actttt	gtgc	tagggg	cggc	300			
ctgagg	cggga	tggatt	atttg	gggcc	agggc	acctcc	gtga
cagtg	agctc	tgcct	ctaca	360			

aagggccctt	ccgtgttccc	actggctccc	tgctccagaa	gcacatctga	gtccaccgcc	420
gctctgggct	gtctggtgaa	ggactacttc	cctgagccag	tgaccgtgtc	ctggaacagc	480
ggcgccctga	catctggcgt	gcacaccttt	ccagctgtgc	tgagtcctag	cggcctgtac	540
tccctgtctt	ccgtgggtgac	agtgtcccagc	tcttccctgg	gcaccaagac	atatacctgc	600
aacgtggacc	ataagccttc	caataccaag	gtggataaga	gggtggagag	caagtacgga	660
ccaccttgcc	caccatgtcc	agctcctgag	tttctgggag	gaccatccgt	gttcctgttt	720
cctccaaagc	ctaaggacac	cctgatgata	agccggacac	ctgaggtgac	ctgcgtgggtg	780
gtggacgtgt	ctcaggagga	tccagaggtg	cagttcaact	ggtacgtgga	tggcgtggag	840
gtgcacaatg	ctaagaccaa	gccaagagag	gagcagttta	attccacata	ccgcgtgggtg	900
agcgtgctga	ccgtgctgca	tcaggattgg	ctgaacggca	aggagtataa	gtgcaagggtg	960
tccaataagg	gcctgtcccag	ctctatcgag	aagacaatca	gcaaggctaa	gggacagcct	1020
agggagccac	aggtgtacac	cctgtcccct	tctcaggagg	agatgacaaa	gaaccaggtg	1080
tccctgacct	gtctggtgaa	gggcttctat	ccaagcgaca	tcgctgtgga	gtgggagtct	1140
aatggccagc	ccgagaacaa	ttacaagacc	acaccaccg	tgctggactc	tgatggctcc	1200
ttctttctgt	attctaggct	gacagtggat	aagtcccgt	ggcaggaggg	caacgtgttt	1260
agctgctctg	tgatgcacga	ggccctgcac	aatcattata	cccagaagtc	cctgagcctg	1320
tctctgggca	agtga					1335

<210> 103
 <211> 215
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 103
 Asp Ile Val Met Thr Gln Thr Pro Ala Ile Met Ser Ala Ser Pro Gly
 1 5 10 15
 Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
 20 25 30
 Tyr Leu His Trp Tyr Gln Gln Lys Ser Gly Ala Ser Pro Lys Leu Trp
 35 40 45
 Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ala Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Val Glu
 65 70 75 80
 Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Asp Ser Thr
 85 90 95
 Trp Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
 115 120 125
 Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
 130 135 140
 Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
 145 150 155 160
 Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
 165 170 175
 Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
 180 185 190
 Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
 195 200 205
 Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 104

<211> 648
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 104
 gacatcgtga tgaccagac acccgccatc atgtccgcct ctcctggcga gaaggtgacc 60
 atgacatgca gggcctccag ctccgtgtcc agcacctacc tgcactggta tcagcagaag 120
 agcggcgctt ctccaaagct gtggatctac accacatcca cactggctag cggagtgcc 180
 gctcggttct ccggaagcgg atctggcacc tcctatagcc tgacaatctc ttccgtggag 240
 gccgaggacg ccgctaccta ctattgtcag cagttctctg attccacctg gacatttggc 300
 ggcggcacaa agctggagat caagcgtacg gtggccgctc ccagcgtgtt catctttccc 360
 ccttctgacg agcagctgaa gtctggcacc gcttccgtgg tgtgcctgct gaacaatttc 420
 taccacagag aggccaaggt gcagtgggaag gtggataacg ctctgcagtc cggcaatagc 480
 caggagtctg tgaccgagca ggactccaag gatagcacat attctctgtc ttccaccctg 540
 aactgtcta aggccgacta cgagaagcac aaggtgtatg cttgcgaggt gacccatcag 600
 ggctgagct ctcctgtgac aaagtccttt aatcgcggcg agtgttga 648

<210> 105
 <211> 447
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 105
 Glu Val Gln Leu Gln Ser Gly Ala Glu Val Ala Arg Pro Gly Ala
 1 5 10 15
 Ser Val Lys Leu Ser Cys Thr Val Ser Gly Phe Asn Ile Glu Asp Asp
 20 25 30
 Tyr Ile Glu Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Asp Pro Ala Asn Asp Lys Thr Lys Tyr Ala Pro Lys Phe
 50 55 60
 Gln Asp Lys Ala Thr Ile Thr Gly Asp Thr Ser Ser Asn Thr Ala Tyr
 65 70 75 80
 Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Arg Pro Gly Leu Arg Arg Tyr Tyr Ser Met Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Ser Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
 115 120 125
 Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala
 130 135 140
 Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
 145 150 155 160
 Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
 165 170 175
 Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
 180 185 190
 Ser Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys
 195 200 205
 Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro
 210 215 220
 Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val
 225 230 235 240
 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr

				245					250				255				
Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu		
				260					265				270				
Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys		
			275					280				285					
Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser		
			290					295				300					
Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys		
305					310					315					320		
Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile		
				325					330					335			
Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro		
			340					345					350				
Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu		
			355					360				365					
Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn		
			370				375				380						
Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser		
385					390					395					400		
Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg		
				405					410					415			
Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu		
			420					425					430				
His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys			
			435				440					445					

<210> 106
 <211> 1344
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 106
 gaggtgcagc tgcagcagtc tggagctgag gtggctaggc caggagcttc cgtgaagctg 60
 agctgcaccg tgtctggcct caacatcgag gacgattaca tcgagtgggt gaagcagaga 120
 ccagagcagg gactggagtg gatcggaagg atcgaccccg ccaacgataa gacaaagtac 180
 gtcctaaagt ttcaggacaa ggccaccatc acaggcgata cctccagcaa tacagcttat 240
 ctgcagctgt cttccctgac ctccgaggac acagccgtgt actattgtac cagaccgggc 300
 ctgaggcggg actattccat ggattattgg ggccagggca ccagcgtgac agtgagctct 360
 gcctctacaa agggcccttc cgtgttccca ctggctccct gctccagaag cacatctgag 420
 tccaccgccg ctctgggctg tctggtgaag gactacttcc ctgagccagt gaccgtgtcc 480
 tggaacagcg gcgccctgac atctggcgtg cacaccttcc cagctgtgct gcagtccagc 540
 ggctgtact ccctgtcttc cgtggtgaca gtgccagct cttccctggg caccaagaca 600
 tatacctgca acgtggacca taagccttcc aataccaagg tggataagag ggtggagagc 660
 aagtacggac caccttgccc accatgtcca gtcctgagt ttctgggagg accatccgtg 720
 ttcctgtttc ctccaaagcc taaggacacc ctgatgatca gccggacacc tgaggtgacc 780
 tgcgtgggtg tggacgtgtc tcaggaggat ccagaggtgc agttcaactg gtacgtggat 840
 ggctgaggag tgcacaatgc taagaccaag ccaagagagg agcagtttaa ttccacatac 900
 cgcgtgggtg gcgtgctgac cgtgctgcat caggattggc tgaacggcaa ggagtataag 960
 tgcaagggtg ccaataaggg cctgcccgag tctatcgaga agacaatcag caaggctaag 1020
 ggacagccta gggagccaca ggtgtacacc ctgccccctt ctcaggagga gatgacaaag 1080
 aaccaggtgt ccctgacctg tctggtgaag ggcttctatc caagcgacat cgctgtggag 1140
 tgggagtcta atggccagcc cgagaacaat tacaagacca caccaccgtg gctggactct 1200
 gatggctcct tctttctgta ttctaggctg acagtggata agtcccgggt gcaggagggc 1260
 aacgtgttta gctgctctgt gatgcacgag gccctgcaca atcattatac ccagaagtcc 1320

ctgagcctgt ctctgggcaa gtga

1344

<210> 107

<211> 214

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 107

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

<210> 108

<211> 645

<212> DNA

<213> 人工序列(Artificial Sequence)

<400> 108

aacatcgtgc tgaccagtc ccctaagagc atgtctatgt ccgtgggcga gagggtgaca 60
ctgtcttgca aggcctccga gaacgtggtg tcctacgtga gctggtatca gcagaagccc 120
gagcagagcc ctaagctgct gatctacggc gcttctaata ggtataccgg agtgccagac 180
cggttcatcg gatccggctc cagcaccgat ttcacactga tcatctcttc ctttcagcca 240
gaggacctgg ccgattacca ctgtggccag agctactctt atcccctgac ctttggcgct 300
ggcaciaaagc tggagctgaa gcgtacggtg gccgtccca gcgtgttcat ctttccccct 360
tctgacgagc agctgaagtc tggcaccgct tccgtggtgt gcctgctgaa caatttctac 420
cccagagagg ccaaggtgca gtggaaggtg gataacgctc tgcagtccgg caatagccag 480
gagtctgtga ccgagcagga ctccaaggat agcacatatt ctctgtcttc caccctgaca 540
ctgtctaagg ccgactacga gaagcacaag gtgtatgctt gcgaggtgac ccatcagggc 600
ctgagctctc ctgtgacaaa gtcctttaat cgcggcgagt gttga 645

<210> 109
 <211> 444
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 109
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
 20 25 30
 Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Ile Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Leu Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys
 130 135 140
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190
 Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn
 195 200 205
 Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro
 210 215 220
 Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe
 225 230 235 240
 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 245 250 255
 Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe
 260 265 270
 Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 275 280 285
 Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 290 295 300
 Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
 305 310 315 320
 Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala
 325 330 335
 Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln
 340 345 350
 Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
 355 360 365
 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro

370		375		380
Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser				
385		390		395
Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu				
	405		410	415
Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His				
	420		425	430
Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys				
	435		440	

<210> 110
 <211> 1335
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 110

cagggtgcagc	tggtgcagag	cggagctgag	gtgaagaagc	caggctccag	cgtgaagggtg	60
tcttgcaagg	cttccggcta	caccttctct	agatattgga	tcgagtgggt	gcgccaggct	120
ccaggacagg	gactggagtg	gatgggagag	ttcatccctg	gctccgacac	cacaaactac	180
gctcagaagt	ttcagggcag	ggtgaccatc	acagccgata	tctccaccag	cacagcttat	240
atggagctgt	cttccctgag	gagcgaggac	acagccgtgt	actattgtgc	tagaggcggc	300
ctgaggcgga	tggattactg	gggccagggc	accctgggtga	cagtgaagtc	tgctcttaca	360
aagggccctt	ccgtgttccc	actggctccc	tgctccagaa	gcacatctga	gtccaccgcc	420
gctctgggct	gtctggtgaa	ggactacttc	cctgagccag	tgaccgtgtc	ctggaacagc	480
ggcgccctga	catctggcgt	gcacaccttt	ccagctgtgc	tgacgtccag	cggcctgtac	540
tccctgtctt	ccgtgggtgac	agtgcccagc	tcttccctgg	gcaccaagac	atatacctgc	600
aacgtggacc	ataagccttc	caataccaag	gtggataaga	gggtggagag	caagtacgga	660
ccaccttgcc	caccatgtcc	agctcctgag	tttctgggag	gaccatccgt	gttcctgttt	720
cctccaaagc	ctaaggacac	cctgatgatc	agccggacac	ctgaggtgac	ctgcgtgggtg	780
gtggacgtgt	ctcaggagga	tccagaggtg	cagttcaact	ggtacgtgga	tggcgtggag	840
gtgcacaatg	ctaagaccaa	gccaagagag	gagcagttta	attccacata	ccgcgtgggtg	900
agcgtgctga	ccgtgctgca	tcaggattgg	ctgaacggca	aggagtataa	gtgcaagggtg	960
tccaataagg	gcctgcccag	ctctatcgag	aagacaatca	gcaaggctaa	gggacagcct	1020
agggagccac	aggtgtacac	cctgccccct	tctcaggagg	agatgacaaa	gaaccagggtg	1080
tccctgacct	gtctggtgaa	gggcttctat	ccaagcgaca	tcgctgtgga	gtgggagtct	1140
aatggccagc	ccgagaacaa	ttacaagacc	acaccaccgc	tgctggactc	tgatggctcc	1200
ttctttctgt	attctaggct	gacagtggat	aagtcccggg	ggcaggaggg	caacgtgttt	1260
agctgctctg	tgatgcacga	ggccctgcac	aatcattata	cccagaagtc	cctgagcctg	1320
tctctgggca	agtga					1335

<210> 111
 <211> 215
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 111

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly			
1	5	10	15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr			
	20	25	30
Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu			
	35	40	45
Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser			
	50	55	60

Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Phe	Ser	Asp	Ser	Thr
				85					90					95	
Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys	Arg	Thr	Val	Ala
			100					105					110		
Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser
		115					120					125			
Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu
	130					135					140				
Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser
145					150					155					160
Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu
				165					170					175	
Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val
			180					185					190		
Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys
		195					200					205			
Ser	Phe	Asn	Arg	Gly	Glu	Cys									
	210					215									

<210> 112
 <211> 648
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 112	
gacatccaga tgacacagag cccatccagc ctgtccgccg gcgtgggcga tagggtgacc	60
atcacatgcc gggcttcttc cagcgtgtct tccacctacc tgcactggta tcagcagaag	120
cccggcaagg cccctaagct gctgatctac accacaagca ccctggcttc tggcgtgccca	180
tccaggttct ctggctccgg cagcggcaca gactttacc tgacaatcag ctctctgcag	240
cccgaggact tcgccaccta ctattgtcag cagttctctg attccacctg gacatttggc	300
cagggcacaa agctggagat caagcgtacg gtggccgctc ccagcgtgtt catctttccc	360
ccttctgacg agcagctgaa gtctggcacc gcttccgtgg tgtgcctgct gaacaatttc	420
taccccagag aggccaaggt gcagtgggaag gtggataacg ctctgcagtc cggcaatagc	480
caggagtctg tgaccgagca ggactccaag gatagcacat attctctgtc ttccaccctg	540
acactgtcta aggccgacta cgagaagcac aaggtgtatg cttgcgaggt gacccatcag	600
ggcctgagct ctctgtgac aaagtccttt aatcgcggcg agtgttga	648

<210> 113
 <211> 444
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 113	
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser	
1	5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr	
	20 25 30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met	
	35 40 45
Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe	
	50 55 60
Gln Gly Arg Val Thr Ile Thr Ala Asp Ile Ser Thr Ser Thr Ala Tyr	

65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Gly	Gly	Leu	Arg	Arg	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu
			100					105					110		
Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu
		115					120					125			
Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	Gly	Cys
	130					135					140				
Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser
145					150					155				160	
Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser
				165					170					175	
Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser
			180					185					190		
Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn
	195						200					205			
Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro
	210				215						220				
Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe
225					230					235					240
Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val
				245					250					255	
Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe
		260					265					270			
Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro
	275						280				285				
Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr
	290				295					300					
Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val
305					310					315					320
Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala
				325				330						335	
Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln
			340					345					350		
Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly
	355					360					365				
Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro
	370					375				380					
Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser
385					390				395					400	
Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu
				405				410						415	
Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His
		420					425						430		
Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys				
		435					440								

<210> 114
 <211> 1335
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 114

caggtgcagc	tggtgcagag	cggagctgag	gtgaagaagc	caggctccag	cgtgaaggtg	60
tcttgcaagg	cttccggcta	caccttctct	agatattgga	tcgagtgggt	gcgccaggct	120
ccaggacagg	gactggagtg	gatgggagag	ttcatccctg	gctccgacac	cacaaactac	180
gctcagaagt	ttcagggcag	ggtgaccatc	acagccgata	tctccaccag	cacagcttat	240
atggagctgt	cttccctgag	gagcgaggac	acagccgtgt	actattgtgc	tagaggcggc	300
ctgaggcgga	tggattactg	gggccagggc	accctgggtga	cagtgaagctc	tgccctctaca	360
aagggccctt	ccgtgttccc	actggctccc	tgctccagaa	gcacatctga	gtccaccgcc	420
gctctgggct	gtctggtgaa	ggactacttc	cctgagccag	tgaccgtgtc	ctggaacagc	480
ggcgccctga	catctggcgt	gcacaccttt	ccagctgtgc	tgcaagtcag	cggcctgtac	540
tccctgtctt	ccgtgggtgac	agtgtcccagc	tcttccctgg	gcaccaagac	atatacctgc	600
aacgtggacc	ataagccttc	caataccaag	gtggataaga	gggtggagag	caagtacgga	660
ccaccttgcc	cacatgtcc	agctcctgag	tttctgggag	gaccatccgt	gttcctgttt	720
cctccaaagc	ctaaggacac	cctgatgatc	agccggacac	ctgaggtgac	ctgcgtgggtg	780
gtggacgtgt	ctcaggagga	tccagaggtg	cagttcaact	ggtacgtgga	tggcgtggag	840
gtgcacaatg	ctaagaccaa	gccaagagag	gagcagttta	attccacata	ccgcgtgggtg	900
agcgtgctga	ccgtgctgca	tcaggattgg	ctgaacggca	aggagtataa	gtgcaaggtg	960
tccaataagg	gcctgcccag	ctctatcgag	aagacaatca	gcaaggctaa	gggacagcct	1020
aggagaccac	aggtgtacac	cctgccccct	tctcaggagg	agatgacaaa	gaaccaggtg	1080
tccctgacct	gtctggtgaa	gggcttctat	ccaagcgaca	tcgctgtgga	gtgggagtct	1140
aatggccagc	ccgagaacaa	ttacaagacc	acaccacccg	tgctggactc	tgatggctcc	1200
ttctttctgt	attctaggct	gacagtggat	aagtcccggg	ggcaggaggg	caacgtgttt	1260
agctgctctg	tgatgcacga	ggccctgcac	aatcattata	cccagaagtc	cctgagcctg	1320
tctctgggca	agtga					1335

<210> 115

<211> 215

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 115

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

Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
195 200 205
Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 116
<211> 648
<212> DNA
<213> 人工序列(Artificial Sequence)

<400> 116
gacatccaga tgacacagag cccatccagc ctgtccgccg gcgtgggcga taggggtgacc 60
atcacatgcc gggcttcttc cagcgtgtct tccacctacc tgcactggta tcagcagaag 120
cccggcaagg cccctaagct gctgatctac accacaagca ccctggcttc tggcgtgccca 180
tccaggttct ctggctccgg cagcggcaca gactttaccc tgacaatcag ctctctgcag 240
cccgaggatt tcgccaccta ctattgtcag cagttctctg agtccacctg gacatttggc 300
cagggcacaa agctggagat caagcgtacg gtggccgctc ccagcgtgtt catctttccc 360
ccttctgacg agcagctgaa gtctggcacc gcttccgtgg tgtgcctgct gaacaatttc 420
taccacagag aggccaaggt gcagtgggaag gtggataacg ctctgcagtc cggcaatagc 480
caggagtctg tgaccgagca ggactccaag gatagcacat attctctgtc ttccaccctg 540
acactgtcta aggccgacta cgagaagcac aaggtgtatg cttgcgaggt gacccatcag 600
ggcctgagct ctctgtgac aaagtccttt aatcgcggcg agtgttga 648

<210> 117
<211> 444
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 117
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
20 25 30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Ile Thr Ala Asp Ile Ser Thr Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Gly Gly Leu Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
115 120 125
Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys
130 135 140
Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
145 150 155 160
Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
165 170 175
Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
180 185 190
Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn

<400>	118						
cagggtgcagc	tggtgcagag	cggagctgag	gtgaagaagc	caggctccag	cgtgaaggtg		60
tcttgcaagg	cttccggcta	caccttctct	agatattgga	tcgagtgggt	gcgccaggct		120
ccaggacagg	gactggagtg	gatgggagag	ttcatccctg	gtcccgacac	cacaaactac		180
gctcagaagt	ttcagggcag	ggtgaccatc	acagccgata	tctccaccag	cacagcttat		240
atggagctgt	cttccctgag	gagcagggac	acagccgtgt	actattgtgc	tagaggcggc		300
ctgaggcgga	tggattactg	gggccagggc	accctggtga	cagtgaagtc	tgccctctaca		360
aagggccctt	ccgtgttccc	actggctccc	tgctccagaa	gcacatctga	gtccaccgcc		420
gctctgggct	gtctggtgaa	ggactacttc	cctgagccag	tgaccgtgtc	ctggaacagc		480
ggcgccctga	catctggcgt	gcacaccttt	ccagctgtgc	tgagtcctag	cggcctgtac		540
tccctgtctt	ccgtgggtgac	agtgccagc	tcttccctgg	gcaccaagac	atatacctgc		600
aacgtggacc	ataagccttc	caataccaag	gtggataaga	gggtggagag	caagtacgga		660
ccaccttgcc	cacatgtcc	agctcctgag	tttctgggag	gaccatccgt	gttcctgttt		720
cctccaaagc	ctaaggacac	cctgatgatc	agccggacac	ctgaggtgac	ctgcgtggtg		780
gtggacgtgt	ctcaggagga	tccagaggtg	cagttcaact	ggtacgtgga	tggcgtggag		840
gtgcacaatg	ctaagaccaa	gccaaagagag	gagcagttta	attccacata	ccgcgtggtg		900
agcgtgctga	ccgtgctgca	tcaggattgg	ctgaacggca	aggagtataa	gtgcaaggtg		960

tccaataagg	gcctgcccag	ctctatcgag	aagacaatca	gcaaggctaa	gggacagcct	1020
aggagaccac	aggtgtacac	cctgccccct	tctcaggagg	agatgacaaa	gaaccagggtg	1080
tccctgacct	gtctgggtgaa	gggcttctat	ccaagcgaca	tcgctgtgga	gtgggagtct	1140
aatggccagc	ccgagaacaa	ttacaagacc	acaccacccg	tgctggactc	tgatggctcc	1200
ttctttctgt	attctaggct	gacagtggat	aagtcccgggt	ggcaggagggt	caacgtgttt	1260
agctgctctg	tgatgcacga	ggccctgcac	aatcattata	cccagaagtc	cctgagcctg	1320
tctctgggca	agtga					1335

<210> 119
 <211> 215
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 119
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
 20 25 30
 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Ser Tyr Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Asp Ser Thr
 85 90 95
 Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
 115 120 125
 Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
 130 135 140
 Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
 145 150 155 160
 Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
 165 170 175
 Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
 180 185 190
 Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
 195 200 205
 Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 120
 <211> 648
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 120
 gacatccaga tgacacagag cccatccagc ctgtccgccg gcgtgggcga tagggtgacc 60
 atcacatgcc gggcttcttc cagcgtgtct tccacctacc tgcactggta tcagcagaag 120
 cccggcaagg cccctaagct gctgatctac accacaagca ccttggtctc tggcgtgccg 180
 tccaggttct ctggctccgg cagcggcaca tcttataccc tgacaatcag ctctctgcag 240
 cccgaggact ttgccaccta ctattgtcag cagttctctg attccacctg gacatttggc 300

cagggcacia	agctggagat	caagcgtacg	gtggccgctc	ccagcgtggt	catctttccc	360
ccttctgacg	agcagctgaa	gtctggcacc	gcttccgtgg	tgtgcctgct	gaacaatttc	420
taccccagag	aggccaaggt	gcagtgggaag	gtggataacg	ctctgcagtc	cggcaatagc	480
caggagtctg	tgaccgagca	ggactccaag	gatagcacat	attctctgtc	ttccaccctg	540
acactgtcta	aggccgacta	cgagaagcac	aaggtgtatg	cttgcgaggt	gacccatcag	600
ggcctgagct	ctcctgtgac	aaagtccttt	aatcgcggcg	agtgttga		648

<210> 121

<211> 444

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 121

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

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

<210> 122
 <211> 1335
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 122

cagg	tg	cagc	tg	gcagag	cgg	agctgag	gt	gaagaagc	cagg	ctccag	cgt	gaaggtg	60
tctt	gcaagg	ctt	ccggcta	cac	tttctct	agatattgga	tc	gagtgggt	gc	gccaggct			120
ccag	gacagg	gact	ggagtg	gat	ggg	cgag	tt	catccctg	gct	ccgacac	cac	aaactac	180
gct	cagaagt	ttc	agggcgag	ggt	gaccatc	acagccgata	tct	ccaccag	cac	agcttat			240
at	ggagctgt	ctt	ccctgag	gag	cgaggac	acagccgtgt	act	attgtgc	tag	aggcggc			300
ct	gaggcgga	tgg	attactg	ggg	ccagggc	accctgggtga	cag	tgagctc	tg	cctctaca			360
aagg	gccctt	ccg	tgttccc	act	ggctccc	tgctccagaa	gc	acatctga	gt	ccaccgcc			420
gct	ctgggct	gt	ctggtgaa	gg	actacttc	cctgagccag	tg	accgtgtc	ct	ggaacagc			480
ggc	gccctga	cat	ctggcgt	gc	acaccttt	ccagctgtgc	tg	cagtccag	cg	gcctgtac			540
tcc	ctgtctt	ccg	tggtagac	agt	gcccagc	tcttccctgg	gc	accaagac	at	atacctgc			600
aac	gtggacc	ata	agccttc	ca	ataccaag	gtggataaga	gg	gtggagag	ca	agtacgga			660
ccac	cttgcc	cacc	atgtcc	ag	ctcctgag	tttctgggag	gac	catccgt	gt	tcctgttt			720
cct	caaagc	cta	aggacac	cct	gatgatc	agccggacac	ct	gaggtgac	ct	gcgtgggtg			780
gt	ggacgtgt	ct	caggagga	tcc	agaggtg	cagttcaact	ggt	acgtgga	tgg	cgtggag			840
gt	gcacaatg	cta	agaccaa	gcc	aagagag	gagcagttta	att	ccacata	cc	gcgtgggtg			900
ag	cgtgctga	ccg	tgtctga	tc	aggattgg	ctgaacggca	agg	agtataa	gt	gcaaggtg			960
tcca	ataaagg	gc	ctgcccag	ct	ctatcgag	aagacaatca	gca	aggctaa	ggg	acagcct			1020
agg	gagccac	agg	tgtacac	cct	gccccct	tctcaggagg	ag	atgacaaa	ga	accaggtg			1080
tcc	tgacct	gt	ctggtgaa	ggg	cttctat	ccaagcgaca	tc	gctgtgga	gt	gggagttct			1140
aat	ggccagc	cc	gagaacaa	tt	acaagacc	acaccacccg	tg	ctggactc	tg	atggctcc			1200
tt	ctttctgt	att	ctaggct	gac	agtggat	aagtcccgggt	gg	caggaggg	ca	acgtgttt			1260
ag	ctgctctg	tg	atgcacga	gg	ccctgcac	aatcattata	ccc	agaagtc	cct	gagcctg			1320
tct	ctgggca	agt	ga										1335

<210> 123
 <211> 215
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 123

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

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

<210> 124
 <211> 648
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 124	
gacatccaga tgacacagag cccatccagc ctgtccgccg gcgtgggcga tagggtgacc	60
atcacatgcc gggcttcttc cagcgtgtct tccacctacc tgcactggta tcagcagaag	120
cccggcaagg cccctaagct gctgatctac accacaagca ccctggcttc tggcgtgccca	180
tccaggttct ctggctccgg cagcggcaca tcttataccc tgacaatcag ctctctgcag	240
cccgaggact ttgccaccta ctattgtcag cagttctctg agtccacctg gacatttggc	300
cagggcacaa agctggagat caagcgtacg gtggccgctc ccagcgtgtt catctttccc	360
ccttctgacg agcagctgaa gtctggcacc gcttccgtgg tgtgcctgct gaacaatttc	420
taccccagag aggccaaggt gcagtgggaag gtggataacg ctctgcagtc cggcaatagc	480
caggagtctg tgaccgagca ggactccaag gatagcacat attctctgtc ttccaccctg	540
acactgtcta aggccgacta cgagaagcac aaggtgtatg cttgcgaggt gacccatcag	600
ggcctgagct ctcctgtgac aaagtccttt aatcgcggcg agtggtga	648

<210> 125
 <211> 444
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 125	
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser	
1 5 10 15	
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr	

			20				25				30				
Trp	Ile	Glu	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Glu	Phe	Ile	Pro	Gly	Ser	Asp	Thr	Thr	Asn	Tyr	Ala	Gln	Lys	Phe
		50					55					60			
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Ile	Ser	Thr	Ser	Thr	Ala	Tyr
65					70				75						80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85				90						95	
Ala	Arg	Gly	Gly	Leu	Arg	Arg	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu
		100						105				110			
Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu
		115				120						125			
Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	Gly	Cys
		130				135				140					
Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser
145					150				155						160
Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser
				165				170						175	
Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser
		180						185				190			
Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn
		195				200						205			
Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro
		210				215				220					
Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe
225					230				235						240
Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val
				245				250						255	
Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe
		260						265				270			
Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro
		275				280				285					
Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr
		290				295				300					
Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val
305					310				315						320
Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala
				325				330						335	
Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln
		340						345				350			
Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly
		355				360				365					
Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro
		370				375				380					
Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser
385					390				395						400
Phe															

<210> 126
 <211> 1335
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 126
 cagggtgcagc tgggtgcagag cggagctgag gtgaagaagc caggctccag cgtgaagggtg 60
 tcttgcaagg cttccggcta cactttctct agatattgga tcgagtgggt gcgccaggct 120
 ccaggacagg gactggagtg gatgggcgag ttcatccctg gctccgacac caaaaactac 180
 gctcagaagt ttcagggcag ggtgaccatc acagccgata tctccaccag cacagcttat 240
 atggagctgt cttccctgag gagcgaggac acagccgtgt actattgtgc tagaggcggc 300
 ctgaggcgga tggattactg gggccagggc accctggatga cagtgaagctc tgcctctaca 360
 aagggccctt ccgtgttccc actggctccc tgctccagaa gcacatctga gtccaccgcc 420
 gctctgggct gtctgggtgaa ggactacttc cctgagccag tgaccgtgtc ctggaacagc 480
 ggcgccctga catctggcgt gcacaccttt ccagctgtgc tgcagtccag cggcctgtac 540
 tccctgtctt ccgtgggtgac agtgcccagc tcttccctgg gcaccaagac atatacctgc 600
 aacgtggacc ataagccttc caataccaag gtggataaga ggggtggagag caagtacgga 660
 ccaccttgcc caccatgtcc agctcctgag tttctgggag gaccatccgt gttcctgttt 720
 cctccaaagc ctaaggacac cctgatgatc agccggacac ctgaggtgac ctgcgtgggtg 780
 gtggacgtgt ctgaggagga tccagagggtg cagttcaact ggtacgtgga tggcgtggag 840
 gtgcacaatg ctaagaccaa gccaagagag gagcagttta attccacata ccgcgtgggtg 900
 agcgtgctga ccgtgctgca tcaggattgg ctgaacggca aggagtataa gtgcaagggtg 960
 tccaataagg gcctgcccag ctctatcgag aagacaatca gcaaggctaa gggacagcct 1020
 agggagccac aggtgtacac cctgccccct tctcaggagg agatgacaaa gaaccagggtg 1080
 tccctgacct gtctgggtgaa gggcttctat ccaagcgaca tcgctgtgga gtgggagtct 1140
 aatggccagc ccgagaacaa ttacaagacc acaccaccg tgctggactc tgatggctcc 1200
 ttctttctgt attctaggct gacagtggat aagtcccgtt ggcaggaggg caacgtgttt 1260
 agctgctctg tgatgcacga ggccctgcac aatcattata cccagaagtc cctgagcctg 1320
 tctctgggca agtga 1335

<210> 127
 <211> 215
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 127
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
 20 25 30
 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Trp
 35 40 45
 Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Ser Tyr Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Asp Ser Thr
 85 90 95
 Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
 115 120 125
 Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
 130 135 140

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

<210> 128
 <211> 648
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 128
 gacatccaga tgacacagag cccatccagc ctgtccgcca gcgtgggcga tagggtgacc 60
 atcacatgcc gggcttcttc cagcgtgtct tccacctacc tgactggta tcagcagaag 120
 cccggcaagg cccctaagct gtggatctac accacaagca ccctggcttc tggcgtgcca 180
 tccaggttct ctggctccgg cagcggcaca tcttataccc tgacaatcag ctctctgcag 240
 cccgaggact ttgccaccta ctattgtcag cagttctctg attccacctg gacatttggc 300
 cagggcacaa agctggagat caagcgtacg gtggccgctc ccagcgtgtt catctttccc 360
 ccttctgacg agcagctgaa gtctggcacc gcttccgtgg tgtgcctgct gaacaatttc 420
 taccacagag aggccaaggt gcagtggaa gtggataacg ctctgcagtc cggcaatagc 480
 caggagtctg tgaccgagca ggactccaag gatagcacat attctctgtc ttccaccctg 540
 aactgtcta aggccgacta cgagaagcac aaggtgtatg cttgcgaggt gacccatcag 600
 ggcctgagct ctctgtgac aaagtccttt aatcgcggcg agtgttga 648

<210> 129
 <211> 444
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 129
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
 20 25 30
 Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Ile Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Leu Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys
 130 135 140
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser

145					150					155				160	
Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser
				165					170					175	
Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser
			180					185					190		
Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn
		195					200					205			
Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro
	210				215						220				
Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe
225					230					235					240
Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val
				245				250						255	
Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe
			260					265						270	
Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro
	275						280					285			
Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr
	290					295					300				
Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val
305					310					315					320
Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala
			325					330						335	
Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln
		340					345						350		
Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly
		355				360					365				
Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro
	370					375				380					
Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser
385					390					395					400
Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu
			405					410						415	
Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His
		420					425						430		
Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys				
		435					440								

<210> 130
 <211> 1335
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 130	
caggtgcagc	60
tcttgcaagg	120
ccaggacagg	180
gctcagaagt	240
atggagctgt	300
ctgaggcgga	360
aagggccctt	420
gctctgggct	480
ggcgccctga	540
tccctgtctt	600
tggtgcagag	
cttccggcta	
gactggagtg	
ttcagggcag	
cttccctgag	
tggattactg	
ccgtgttccc	
gtctgggtgaa	
catctggcgt	
ccgtgggtgac	
cggagctgag	
caccttctct	
gatgggcgag	
ggtgaccatc	
gagcgaggac	
gggccagggc	
actggctccc	
ggactacttc	
gcacaccttt	
agtgcccagc	
gtgaagaagc	
agatattgga	
ttcatccctg	
acagccgata	
acagccgtgt	
accctgggtga	
tgctccagaa	
cctgagccag	
ccagctgtgc	
tcttccctgg	
caggctccag	
tcgagtgggt	
gctccgacac	
tctccaccag	
actattgtgc	
cagttagctc	
gcacatctga	
tgaccgtgtc	
tgcaagtccag	
gcaccaagac	
cgtgaaggtg	
gcgccaggct	
cacaaactac	
cacagcttat	
tagaggcggc	
tgccctctaca	
gtccaccgcc	
ctggaacagc	
cggcctgtac	
atatacctgc	

aacgtggacc	ataagccttc	caataccaag	gtggataaga	gggtggagag	caagtacgga	660
ccaccttgcc	caccatgtcc	agctcctgag	tttctgggag	gaccatccgt	gttcctgttt	720
cctccaaagc	ctaaggacac	cctgatgatc	agccggacac	ctgaggtgac	ctgcgtgggtg	780
gtggacgtgt	ctcaggagga	tccagaggtg	cagttcaact	ggtacgtgga	tggcgtggag	840
gtgcacaatg	ctaagaccaa	gccaagagag	gagcagttta	attccacata	ccgcgtgggtg	900
agcgtgctga	ccgtgctgca	tcaggattgg	ctgaacggca	aggagtataa	gtgcaagggtg	960
tccaataagg	gcctgcccag	ctctatcgag	aagacaatca	gcaaggctaa	gggacagcct	1020
agggagccac	aggtgtacac	cctgccccct	tctcaggagg	agatgacaaa	gaaccaggtg	1080
tccctgacct	gtctggtgaa	gggcttctat	ccaagcgaca	tcgctgtgga	gtgggagtct	1140
aatggccagc	ccgagaacaa	ttacaagacc	acaccacccg	tgctggactc	tgatggctcc	1200
ttctttctgt	attctaggct	gacagtggat	aagtcccggg	ggcaggaggg	caacgtgttt	1260
agctgctctg	tgatgcacga	ggccctgcac	aatcattata	cccagaagtc	cctgagcctg	1320
tctctgggca	agtga					1335

<210> 131
 <211> 215
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 131
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
 20 25 30
 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Trp
 35 40 45
 Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Ser Tyr Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Glu Ser Thr
 85 90 95
 Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
 115 120 125
 Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
 130 135 140
 Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
 145 150 155 160
 Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
 165 170 175
 Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
 180 185 190
 Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
 195 200 205
 Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 132
 <211> 648
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 132
gacatccaga tgacacagag cccatccagc ctgtccgcca gcgtgggcga tagggtgacc 60
atcacatgcc gggcttcttc cagcgtgtct tccacctacc tgcactggta tcagcagaag 120
cccggcaagg cccctaagct gtggatctac accacaagca ccctggcttc tggcgtgcca 180
tccaggttct ctggctccgg cagcggcaca tcttataccc tgacaatcag ctctctgcag 240
cccgaggact ttgccaccta ctattgtcag cagttctctg agtccacctg gacatttggc 300
cagggcacia agctggagat caagcgtacg gtggccgctc ccagcgtgtt catctttccc 360
ccttctgacg agcagctgaa gtctggcacc gcttccgtgg tgtgcctgct gaacaatttc 420
taccacagag aggccaaggt gcagtggaag gtggataacg ctctgcagtc cggcaatagc 480
caggagtctg tgaccgagca ggactccaag gatagcacat attctctgtc ttccaccctg 540
acactgtcta aggccgacta cgagaagcac aaggtgtatg cttgcgaggt gacccatcag 600
ggcctgagct ctctgtgac aaagtccttt aatcgcggcg agtgttga 648

<210> 133
<211> 444
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 133
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
20 25 30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Ile Thr Ala Glu Ile Ser Thr Asn Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Gly Gly Leu Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
115 120 125
Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys
130 135 140
Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
145 150 155 160
Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
165 170 175
Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
180 185 190
Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn
195 200 205
Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro
210 215 220
Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe
225 230 235 240
Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
245 250 255
Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe
260 265 270
Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro

		275						280				285					
Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr		
	290					295					300						
Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val		
305					310					315					320		
Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala		
				325					330					335			
Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln		
			340					345					350				
Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly		
		355				360					365						
Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro		
	370				375					380							
Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser		
385					390				395						400		
Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu		
				405				410					415				
Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His		
			420					425				430					
Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys						
		435				440											

<400>	134						
cagggtgcagc	tggtgcagag	cggagctgag	gtgaagaagc	caggctccag	cgtgaaggtg		60
tcctgcaagg	ctagcggcta	caccttctct	agataattgga	tcgagtgggt	gcgccagggt		120
ccaggacagg	gactggagtg	gatgggcgag	ttcatccctg	gctccgacac	cacaaactac		180
gctcagaagt	ttcagggcag	ggtgaccatc	acagccgaga	tctctaccaa	tacagcttat		240
atggagctgt	cttccctgag	gtccgaggac	acagccgtgt	actattgtgc	tagaggcggc		300
ctgaggcgga	tggattactg	gggccagggc	accctggatga	cagtgaagtc	tgcctctaca		360
aagggccctt	ccgtgttccc	actggctccc	tgctccagaa	gcacatctga	gtccaccgcc		420
gctctgggct	gtctggtgaa	ggactacttc	cctgagccag	tgaccgtgtc	ctggaacagc		480
ggcgccctga	catctggcgt	gcacaccttt	ccagctgtgc	tgcaagtcag	cggcctgtac		540
tccctgtctt	ccgtggtgac	agtgccagc	tcttccctgg	gcaccaagac	atatacctgc		600
aacgtggacc	ataagccttc	caataccaag	gtggataaga	gggtggagag	caagtacgga		660
ccaccttgcc	caccatgtcc	agctcctgag	tttctgggag	gaccatccgt	gttctgtttt		720
cctccaaaagc	ctaaggacac	cctgatgatc	agccggacac	ctgaggtgac	ctgcgtggtg		780
gtggacgtgt	ctcaggagga	tccagagggtg	cagttcaact	ggtacgtgga	tggcgtggag		840
gtgcacaatg	ctaagaccaa	gccaagagag	gagcagttta	attccacata	ccgcgtggtg		900
agcgtgctga	ccgtgctgca	tcaggattgg	ctgaacggca	aggagtataa	gtgcaaggtg		960
tccaataagg	gcctgcccag	ctctatcgag	aagacaatca	gcaaggctaa	gggacagcct		1020
agggagccac	aggtgtacac	cctgccccct	tctcaggagg	agatgacaaa	gaaccagggtg		1080
tccctgacct	gtctggtgaa	gggcttctat	ccaagcgaca	tcgctgtgga	gtgggagtct		1140
aatggccagc	ccgagaacaa	ttacaagacc	acaccacccg	tgctggactc	tgatggctcc		1200
ttctttctgt	attctaggct	gacagtggat	aagtcccggg	ggcaggaggg	caacgtgttt		1260
agctgctctg	tgatgcacga	ggccctgcac	aatcattata	cccagaagtc	cctgagcctg		1320
tctctgggca	agtga						1335

<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 135
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
20 25 30
Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45
Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Asp Ser Thr
85 90 95
Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
100 105 110
Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
115 120 125
Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
130 135 140
Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
145 150 155 160
Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
165 170 175
Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
180 185 190
Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
195 200 205
Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 136
<211> 648
<212> DNA
<213> 人工序列(Artificial Sequence)

<400> 136
gacatccaga tgacacagag cccatccagc ctgtccgcca gcgtgggcga tagggtgacc 60
atcacatgcc gggcttcttc cagcgtgtct tccacctacc tgcactggta tcagcagaag 120
cccggcaagg cccctaagct gctgatctac accacaagca ccctggcttc tggcgtgcca 180
tccaggttct ctggctccgg cagcggcaca gactttaccc tgacaatcag ctctctgcag 240
cccgaggact tcgccaccta ctattgtcag cagttctctg attccacctg gacatttggc 300
cagggcacaa agctggagat caagcgtacg gtggccgctc ccagcgtgtt catctttccc 360
ccttctgacg agcagctgaa gtctggcacc gcttccgtgg tgtgcctgct gaacaatttc 420
taccacagag aggccaaggt gcagtggaa gtggataacg ctctgcagtc cggcaatagc 480
caggagtctg tgaccgagca ggactccaag gatagcacat attctctgtc ttccaccctg 540
acactgtcta aggccgacta cgagaagcac aaggtgtatg cttgcgaggt gacccatcag 600
ggcctgagct ctctgtgac aaagtccttt aatcgcggcg agtggtga 648

<210> 137
<211> 444
<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 137

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser	1	5	10	15
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Ser	Arg	Tyr	20	25	30	
Trp	Ile	Glu	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met	35	40	45	
Gly	Glu	Phe	Ile	Pro	Gly	Ser	Asp	Thr	Thr	Asn	Tyr	Ala	Gln	Lys	Phe	50	55	60	
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Glu	Ile	Ser	Thr	Asn	Thr	Ala	Tyr	65	70	75	80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	85	90	95	
Ala	Arg	Gly	Gly	Leu	Arg	Arg	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	100	105	110	
Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	115	120	125	
Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	Gly	Cys	130	135	140	
Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	145	150	155	160
Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	165	170	175	
Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	180	185	190	
Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn	195	200	205	
Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	210	215	220	
Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	225	230	235	240
Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	245	250	255	
Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	260	265	270	
Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	275	280	285	
Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	290	295	300	
Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	305	310	315	320
Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	325	330	335	
Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	340	345	350	
Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	355	360	365	
Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	370	375	380	
Glu	Asn	Asn	Tyr	Lys	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser		385	390	395	400
Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu				

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
 405 410 415
 420 425 430
 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
 435 440

<400>	138						
cagggtgcagc	tggtgcagag	cggagctgag	gtgaagaagc	caggctccag	cgtgaagggtg		60
tcctgcaagg	ctagcggcta	caccttctct	agatatgtga	tcgagtgggt	gcgccaggct		120
ccaggacagg	gactggagtg	gatgggagag	ttcatccctg	gctccgacac	cacaaactac		180
gctcagaagt	ttcagggcag	ggtgaccatc	acagccgaga	tctctacca	tacagcttat		240
atggagctgt	cttccctgag	gtccgaggac	acagccgtgt	actattgtgc	tagaggcggc		300
ctgaggcgga	tggattactg	gggccagggc	accctggtga	cagtgaagtc	tgccctctaca		360
aagggccctt	ccgtgtttcc	actggctccc	tgctccagaa	gcacatctga	gtccaccgcc		420
gctctgggct	gtctggtgaa	ggactacttc	cctgagccag	tgaccgtgtc	ctggaacagc		480
ggcgccctga	catctggcgt	gcacaccttt	ccagctgtgc	tgagctccag	cggcctgtac		540
tccctgtctt	ccgtggtgac	agtgccagc	tcttccctgg	gcaccaagac	atatacctgc		600
aacgtggacc	ataagccttc	caataccaag	gtggataaga	gggtggagag	caagtacgga		660
ccaccttgcc	caccatgtcc	agctcctgag	tttctgggag	gaccatccgt	gttcctgttt		720
cctccaaagc	ctaaggacac	cctgatgatc	agccggacac	ctgagggtgac	ctgcgtggtg		780
gtggacgtgt	ctcaggagga	tccagagggtg	cagttcaact	ggtacgtgga	tggcgtggag		840
gtgcacaatg	ctaagaccaa	gccaaagagag	gagcagttta	attccacata	ccgcgtggtg		900
agcgtgctga	ccgtgctgca	tcaggattgg	ctgaacggca	aggagtataa	gtgcaagggtg		960
tccaataagg	gcctgcccag	ctctatcgag	aagacaatca	gcaaggctaa	gggacagcct		1020
agggagccac	aggtgtacac	cctgccccct	tctcaggagg	agatgacaaa	gaaccagggtg		1080
tccctgacct	gtctggtgaa	gggcttctat	ccaagcgaca	tcgctgtgga	gtgggagtct		1140
aatggccagc	ccgagaacaa	ttacaagacc	acaccaccgc	tgctggactc	tgatggctcc		1200
ttctttctgt	attctaggct	gacagtggat	aagtcccggt	ggcaggagggt	caacgtgttt		1260
agctgctctg	tgatgcacga	ggccctgcac	aatcattata	cccagaagtc	cctgagcctg		1320
tctctgggca	agtga						1335

<400> 139															
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Ser	Ser	Val	Ser	Ser	Thr
			20					25					30		
Tyr	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Thr	Thr	Ser	Thr	Leu	Ala	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75				80	
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Phe	Ser	Glu	Ser	Thr
				85					90					95	

Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys	Arg	Thr	Val	Ala
			100					105					110		
Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser
		115					120					125			
Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu
	130					135					140				
Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser
145					150				155						160
Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu
			165					170					175		
Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val
			180				185						190		
Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys
		195					200					205			
Ser	Phe	Asn	Arg	Gly	Glu	Cys									
	210					215									

<210> 140
 <211> 648
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 140	
gacatccaga tgacacagag cccatccagc ctgtccgccg gcgtgggcga tagggtgacc	60
atcacatgcc gggcttcttc cagcgtgtct tccacctacc tgcactggta tcagcagaag	120
cccggcaagg cccctaagct gctgatctac accacaagca ccctggcttc tggcgtgccg	180
tccaggttct ctggctccgg cagcggcaca gactttaccc tgacaatcag ctctctgcag	240
cccgaggatt tcgccaccta ctattgtcag cagttctctg agtccacctg gacatttggc	300
cagggcacaa agctggagat caagcgtacg gtggccgctc ccagcgtgtt catctttccc	360
ccttctgacg agcagctgaa gtctggcacc gcttccgtgg tgtgcctgct gaacaatttc	420
taccccagag aggccaaggt gcagtggaag gtggataacg ctctgcagtc cggcaatagc	480
caggagtctg tgaccgagca ggactccaag gatagcacat attctctgtc ttccaccctg	540
acactgtcta aggccgacta cgagaagcac aaggtgtatg cttgcgaggt gacccatcag	600
ggcctgagct ctctgtgac aaagtccttt aatcgcggcg agtgttga	648

<210> 141
 <211> 444
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 141	
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser	
1	5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr	
	20 25 30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met	
	35 40 45
Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe	
	50 55 60
Gln Gly Arg Val Thr Ile Thr Ala Glu Ile Ser Thr Asn Thr Ala Tyr	
65	70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys	
	85 90 95
Ala Arg Gly Gly Leu Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr Leu	

atggagctgt	cttccctgag	gtccgaggac	acagccgtgt	actattgtgc	tagaggcggc	300
ctgaggcgga	tggattactg	gggccagggc	accctggtga	cagttagctc	tgctcttaca	360
aagggccctt	ccgtgttccc	actggctccc	tgctccagaa	gcacatctga	gtccaccgcc	420
gctctgggct	gtctgggtgaa	ggactacttc	cctgagccag	tgaccgtgtc	ctggaacagc	480
ggcgccctga	catctggcgt	gcacaccttt	ccagctgtgc	tgtagtccag	cggcctgtac	540
tccctgtctt	ccgtgggtgac	agtgtcccagc	tcttccctgg	gcaccaagac	atatacctgc	600
aacgtggacc	ataagccttc	caataccaag	gtggataaga	gggtggagag	caagtacgga	660
ccaccttgcc	caccatgtcc	agctcctgag	tttctgggag	gaccatccgt	gttcctgttt	720
cctccaaagc	ctaaggacac	cctgatgatc	agccggacac	ctgaggtgac	ctgcgtggtg	780
gtggacgtgt	ctcaggagga	tccagaggtg	cagttcaact	ggtacgtgga	tggcgtggag	840
gtgcacaatg	ctaagaccaa	gccaagagag	gagcagttta	attccacata	ccgcgtggtg	900
agcgtgctga	ccgtgctgca	tcaggattgg	ctgaacggca	aggagtataa	gtgcaagggtg	960
tccaataagg	gcctgcccag	ctctatcgag	aagacaatca	gcaaggctaa	gggacagcct	1020
agggagccac	aggtgtacac	cctgccccct	tctcaggagg	agatgacaaa	gaaccaggtg	1080
tccctgacct	gtctgggtgaa	gggcttctat	ccaagcgaca	tcgctgtgga	gtgggagtct	1140
aatggccagc	ccgagaacaa	ttacaagacc	acaccaccg	tgctggactc	tgatggctcc	1200
ttctttctgt	attctaggct	gacagtggat	aagtcccgtt	ggcaggaggg	caacgtgttt	1260
agctgctctg	tgatgcacga	ggccctgcac	aatcattata	cccagaagtc	cctgagcctg	1320
tctctgggca	agtga					1335

<210> 143
 <211> 215
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 143
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
 20 25 30
 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Thr Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Ser Tyr Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Asp Ser Thr
 85 90 95
 Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
 100 105 110
 Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
 115 120 125
 Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
 130 135 140
 Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
 145 150 155 160
 Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
 165 170 175
 Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
 180 185 190
 Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
 195 200 205
 Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 144
 <211> 648
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 144
 gacatccaga tgacacagag cccatccagc ctgtccgcca gcgtgggcga tagggtgacc 60
 atcacatgcc gggcttcttc cagcgtgtct tccacctacc tgcactggta tcagcagaag 120
 cccggcaagg cccctaagct gctgatctac accacaagca ccctggcttc tggcgtgcca 180
 tccaggttct ctggctccgg cagcggcaca tcttataccc tgacaatcag ctctctgcag 240
 cccgaggact ttgccaccta ctattgtcag cagttctctg attccacctg gacatttggc 300
 cagggcacaa agctggagat caagcgtacg gtggccgctc ccagcgtgtt catctttccc 360
 ccttctgacg agcagctgaa gtctggcacc gcttccgtgg tgtgcctgct gaacaatttc 420
 taccacagag aggccaaggt gcagtggaag gtggataacg ctctgcagtc cggcaatagc 480
 caggagtctg tgaccgagca ggactccaag gatagcacat attctctgtc ttccaccctg 540
 aactgtctta aggccgacta cgagaagcac aaggtgtatg cttgcgaggt gacccatcag 600
 ggcttgagct ctctgtgac aaagtccttt aatcgcggcg agtgttga 648

<210> 145
 <211> 444
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 145
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
 20 25 30
 Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Glu Ile Ser Thr Asn Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Leu Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys
 130 135 140
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190
 Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn
 195 200 205
 Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro
 210 215 220
 Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe

225					230					235					240
Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val
				245					250					255	
Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe
			260					265					270		
Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro
		275					280				285				
Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr
	290					295					300				
Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val
305				310				315						320	
Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala
			325					330						335	
Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln
			340				345						350		
Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly
	355					360					365				
Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro
	370					375					380				
Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser
385				390					395					400	
Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu
			405					410						415	
Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His
	420					425					430				
Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys				
	435					440									

<210> 146
 <211> 1335
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 146	
cagggtgcagc	60
tggtgcagag	
cggagctgag	
gtgaagaagc	
caggctccag	
cgtgaagggtg	60
tcctgcaagg	120
ctagcggcta	
caccttctct	
agatattgga	
tcgagtgggt	
gcgccaggct	120
ccaggacagg	180
gactggagtg	
gatgggagcag	
ttcatccctg	
gctccgacac	
cacaaactac	180
gctcagaagt	240
ttcagggcag	
ggtgaccatc	
acagccgaga	
tctctaccaa	
tacagcttat	240
atggagctgt	300
cttcccctgag	
gtccgaggac	
acagccgtgt	
actattgtgc	
tagaggcggc	300
ctgaggcgga	360
tggattactg	
gggccagggc	
accctgggtga	
cagttagctc	
tgccctctaca	360
aagggccctt	420
ccgtgttccc	
actggctccc	
tgctccagaa	
gcacatctga	
gtccaccgcc	420
gtctgggct	480
gtctggtgaa	
ggactacttc	
cctgagccag	
tgaccgtgtc	
ctggaacagc	480
ggcgccctga	540
catctggcgt	
gcacaccttt	
ccagctgtgc	
tgacgtccag	
cggcctgtac	540
tccctgtctt	600
ccgtgggtgac	
agtgcccagc	
tcttccctgg	
gcaccaagac	
atatacctgc	600
aacgtggacc	660
ataagccttc	
caataccaag	
gtggataaga	
gggtggagag	
caagtacgga	660
ccaccttgcc	720
caccatgtcc	
agctcctgag	
tttctgggag	
gaccatccgt	
gttcctgttt	720
cctccaaagc	780
ctaaggacac	
cctgatgatc	
agccggacac	
ctgaggtgac	
ctgcgtgggtg	780
gtggacgtgt	840
ctcaggagga	
tccagaggtg	
cagttcaact	
ggtagctgga	
tggcgtggag	840
gtgcacaatg	900
ctaagaccaa	
gccaagagag	
gagcagttta	
attccacata	
ccgcgtgggtg	900
agcgtgctga	960
ccgtgctgca	
tcaggattgg	
ctgaacggca	
aggagtataa	
gtgcaagggtg	960
tccaataagg	1020
gcctgcccag	
ctctatcgag	
aagacaatca	
gcaaggctaa	
gggacagcct	1020
agggagccac	1080
aggtgtacac	
cctgccccct	
tctcaggagg	
agatgacaaa	
gaaccaggtg	1080
tccctgacct	1140
gtctgggtgaa	
gggcttctat	
ccaagcgaca	
tcgctgtgga	
gtgggagttc	1140
aatggccagc	1200
ccgagaacaa	
ttacaagacc	
acaccaccgc	
tgctggactc	
tgatggctcc	1200

ttcttttctgt attctaggct gacagtggat aagtcccggg ggcaggaggg caacgtgttt	1260
agctgctctg tgatgcacga ggccctgcac aatcattata cccagaagtc cctgagcctg	1320
tctctgggca agtga	1335

<210> 147
 <211> 215
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 147

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

<210> 148
 <211> 648
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 148

gacatccaga tgacacagag cccatccagc ctgtccgcca gcgtgggcga tagggtgacc	60
atcacatgcc gggcttcttc cagcgtgtct tccacctacc tgcactggta tcagcagaag	120
cccggcaagg cccctaagct gctgatctac accacaagca ccctggcttc tggcgtgccca	180
tccaggttct ctggctccgg cagcggcaca tcttataccc tgacaatcag ctctctgcag	240
cccgaggact ttgccaccta ctattgtcag cagttctctg agtccacctg gacatttggc	300
cagggcacia agctggagat caagcgtacg gtggccgctc ccagcgtgtt catctttccc	360
ccttctgacg agcagctgaa gtctggcacc gcttccgtgg tgtgcctgct gaacaatttc	420
tacccagag aggccaaggt gcagtggaag gtggataacg ctctgcagtc cggcaatagc	480
caggagtctg tgaccgagca ggactccaag gatagcacat attctctgtc ttccaccctg	540

acactgtcta aggccgacta cgagaagcac aaggtgtatg cttgcgaggt gacccatcag	600
ggcctgagct ctcctgtgac aaagtccttt aatcgcggcg agtgttga	648

<210> 149
 <211> 444
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 149

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser	
1	5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr	
	20 25 30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met	
	35 40 45
Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe	
	50 55 60
Gln Gly Arg Val Thr Ile Thr Ala Glu Ile Ser Thr Asn Thr Ala Tyr	
65	70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys	
	85 90 95
Ala Arg Gly Gly Leu Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr Leu	
	100 105 110
Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu	
	115 120 125
Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys	
	130 135 140
Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser	
145	150 155 160
Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser	
	165 170 175
Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser	
	180 185 190
Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn	
	195 200 205
Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro	
	210 215 220
Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe	
225	230 235 240
Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val	
	245 250 255
Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe	
	260 265 270
Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro	
	275 280 285
Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr	
	290 295 300
Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val	
305	310 315 320
Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala	
	325 330 335
Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln	
	340 345 350
Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly	

355	360	365
Phe Tyr Pro Ser Asp Ile	Ala Val Glu Trp Glu Ser	Asn Gly Gln Pro
370	375	380
Glu Asn Asn Tyr Lys Thr	Thr Pro Pro Val Leu Asp	Ser Asp Gly Ser
385	390	395
Phe Phe Leu Tyr Ser Arg	Leu Thr Val Asp Lys	Ser Arg Trp Gln Glu
405	410	415
Gly Asn Val Phe Ser Cys	Ser Val Met His Glu Ala	Leu His Asn His
420	425	430
Tyr Thr Gln Lys Ser Leu	Ser Leu Ser Leu Gly Lys	
435	440	

<210> 150
 <211> 1335
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 150

cagggtgcagc	tggtgcagag	cggagctgag	gtgaagaagc	caggctccag	cgtgaagggtg	60
tcctgcaagg	ctagcggcta	caccttctct	agatattgga	tcgagtgggt	gcgccaggct	120
ccaggacagg	gactggagtg	gatgggcgag	ttcatccctg	gctccgacac	cacaaactac	180
gctcagaagt	ttcagggcag	ggtgaccatc	acagccgaga	tctctaccaa	tacagcttat	240
atggagctgt	cttccctgag	gtccgaggac	acagccgtgt	actattgtgc	tagaggcggc	300
ctgaggcgga	tggattactg	gggccagggc	accctgggtga	cagtgaagctc	tgccctctaca	360
aagggccctt	ccgtgttccc	actggctccc	tgctccagaa	gcacatctga	gtccaccgcc	420
gctctgggct	gtctgggtgaa	ggactacttc	cctgagccag	tgaccgtgtc	ctggaacagc	480
ggcgccctga	catctggcgt	gcacaccttt	ccagctgtgc	tgcaagtccag	cggcctgtac	540
tccctgtctt	ccgtgggtgac	agtgcccagc	tcttccctgg	gcaccaagac	atatacctgc	600
aacgtggacc	ataagccttc	caataccaag	gtggataaga	gggtggagag	caagtacgga	660
ccaccttgcc	caccatgtcc	agctcctgag	tttctgggag	gaccatccgt	gttcctgttt	720
cctccaaagc	ctaaggacac	cctgatgatc	agccggacac	ctgaggtgac	ctgcgtgggtg	780
gtggacgtgt	ctcaggagga	tccagagggtg	cagttcaact	ggtacgtgga	tggcgtggag	840
gtgcacaatg	ctaagaccaa	gccaagagag	gagcagttta	attccacata	ccgcgtgggtg	900
agcgtgctga	ccgtgctgca	tcaggattgg	ctgaacggca	aggagtataa	gtgcaagggtg	960
tccaataagg	gcctgcccag	ctctatcgag	aagacaatca	gcaaggctaa	gggacagcct	1020
agggagccac	aggtgtacac	cctgccccct	tctcaggagg	agatgacaaa	gaaccagggtg	1080
tccctgacct	gtctgggtgaa	gggcttctat	ccaagcgaca	tcgctgtgga	gtgggagtct	1140
aatggccagc	ccgagaacaa	ttacaagacc	acaccaccg	tgctggactc	tgatggctcc	1200
ttctttctgt	attctaggct	gacagtggat	aagtcccgtt	ggcaggaggg	caacgtgttt	1260
agctgctctg	tgatgcacga	ggccctgcac	aatcattata	cccagaagtc	cctgagcctg	1320
tctctgggca	agtga					1335

<210> 151
 <211> 215
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 151

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Thr
20 25 30
Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Trp
35 40 45

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

<210> 152
 <211> 648
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 152	
gacatccaga tgacacagag cccatccagc ctgtccgccg gcgtgggcga tagggtgacc	60
atcacatgcc gggcttcttc cagcgtgtct tccacctacc tgcactggta tcagcagaag	120
cccggcaagg cccctaagct gtggatctac accacaagca ccctggcttc tggcgtgccg	180
tccaggttct ctggctccgg cagcggcaca tcttataccc tgacaatcag ctctctgcag	240
cccgaggact ttgccaccta ctattgtcag cagttctctg attccacctg gacatttggc	300
cagggcacaa agctggagat caagcgtacg gtggccgctc ccagcgtgtt catctttccc	360
ccttctgacg agcagctgaa gtctggcacc gcttccgtgg tgtgcctgct gaacaatttc	420
tacccagag aggccaaagt gcagtggaag gtggataacg ctctgcagtc cggcaatagc	480
caggagtctg tgaccgagca ggactccaag gatagcacat attctctgtc ttccaccctg	540
acactgtcta aggccgacta cgagaagcac aaggtgtatg cttgcgaggt gacccatcag	600
ggcctgagct ctctgtgac aaagtccttt aatcgcggcg agtgttga	648

<210> 153
 <211> 444
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 153	
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser	
1	5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr	
	20 25 30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met	
	35 40 45
Gly Glu Phe Ile Pro Gly Ser Asp Thr Thr Asn Tyr Ala Gln Lys Phe	

50		55		60											
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Glu	Ile	Ser	Thr	Asn	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Gly	Gly	Leu	Arg	Arg	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu
			100					105					110		
Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu
		115					120					125			
Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	Gly	Cys
		130				135					140				
Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser
145					150					155					160
Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser
				165					170					175	
Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser
		180						185				190			
Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn
		195					200					205			
Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro
	210					215					220				
Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe
225					230					235					240
Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val
			245					250						255	
Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe
		260						265					270		
Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro
		275					280					285			
Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr
	290					295					300				
Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val
305				310						315					320
Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala
			325						330					335	
Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln
		340					345						350		
Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly
	355					360					365				
Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro
	370					375				380					
Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser
385					390					395					400
Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu
			405					410						415	
Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His
		420					425						430		
Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys				
	435					440									

<210> 154
 <211> 1335
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 154

caggtgcagc	tggtgcagag	cggagctgag	gtgaagaagc	caggctccag	cgtgaagggtg	60
tcctgcaagg	ctagcggcta	caccttctct	agatattgga	tcgagtgggt	gcgccaggct	120
ccaggacagg	gactggagtg	gatgggagag	ttcatccctg	gctccgacac	cacaaactac	180
gctcagaagt	ttcagggcag	ggtgaccatc	acagccgaga	tctctaccaa	tacagcttat	240
atggagctgt	cttccctgag	gtccgaggac	acagccgtgt	actattgtgc	tagaggcggc	300
ctgaggcgga	tggattactg	gggccagggc	accctgggtga	cagtgaagctc	tgccctctaca	360
aagggccctt	ccgtgttccc	actggctccc	tgctccagaa	gcacatctga	gtccaccgcc	420
gctctgggct	gtctggtgaa	ggactacttc	cctgagccag	tgaccgtgtc	ctggaacagc	480
ggcgccctga	catctggcgt	gcacaccttt	ccagctgtgc	tgcaagtccag	cggcctgtac	540
tccctgtctt	ccgtgggtgac	agtgcccagc	tcttccctgg	gcaccaagac	atatacctgc	600
aacgtggacc	ataagccttc	caataccaag	gtggataaga	gggtggagag	caagtacgga	660
ccaccttgcc	caccatgtcc	agctcctgag	tttctgggag	gaccatccgt	gttcctgttt	720
cctccaaagc	ctaaggacac	cctgatgatc	agccggacac	ctgaggtgac	ctgcgtgggtg	780
gtggacgtgt	ctcaggagga	tccagaggtg	cagttcaact	ggtacgtgga	tggcgtggag	840
gtgcacaatg	ctaagaccaa	gccaagagag	gagcagttta	attccacata	ccgcgtgggtg	900
agcgtgctga	ccgtgctgca	tcaggattgg	ctgaacggca	aggagtataa	gtgcaagggtg	960
tccaataagg	gcctgcccag	ctctatcgag	aagacaatca	gcaaggctaa	gggacagcct	1020
agggagccac	aggtgtacac	cctgccccct	tctcaggagg	agatgacaaa	gaaccagggtg	1080
tccctgacct	gtctggtgaa	gggcttctat	ccaagcgaca	tcgctgtgga	gtgggagtct	1140
aatggccagc	ccgagaacaa	ttacaagacc	acaccaccg	tgctggactc	tgatggctcc	1200
ttctttctgt	attctaggct	gacagtggat	aagtcccgtt	ggcaggaggg	caacgtgttt	1260
agctgctctg	tgatgcacga	ggccctgcac	aatcattata	cccagaagtc	cctgagcctg	1320
tctctgggca	agtga					1335

<210> 155

<211> 215

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 155

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

Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val
			180					185					190		
Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys
		195					200					205			
Ser	Phe	Asn	Arg	Gly	Glu	Cys									
	210					215									

<210> 156
 <211> 648
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 156

gacatccaga	tgacacagag	cccatccagc	ctgtccgcca	gcgtgggcga	tagggtgacc	60
atcacatgcc	gggcttcttc	cagcgtgtct	tccacctacc	tgactggta	tcagcagaag	120
cccggcaagg	cccctaagct	gtggatctac	accacaagca	ccctggcttc	tggcgtgcca	180
tccaggttct	ctggctccgg	cagcggcaca	tcttataccc	tgacaatcag	ctctctgcag	240
cccgaggact	ttgccaccta	ctattgtcag	cagttctctg	agtccacctg	gacatttggc	300
cagggcacaa	agctggagat	caagcgtacg	gtggccgctc	ccagcgtgtt	catctttccc	360
ccttctgacg	agcagctgaa	gtctggcacc	gcttccgtgg	tgtgcctgct	gaacaatttc	420
tacccagag	aggccaaggt	gcagtgggaag	gtggataacg	ctctgcagtc	cggcaatagc	480
caggagtctg	tgaccgagca	ggactccaag	gatagcacat	attctctgtc	ttccaccctg	540
acactgtcta	aggccgacta	cgagaagcac	aaggtgtatg	cttgcgaggt	gacccatcag	600
ggcctgagct	ctcctgtgac	aaagtccttt	aatcgcggcg	agtgttga		648

<210> 157
 <211> 446
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 157

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

			180					185				190					
Ser	Ser	Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro		
		195					200					205					
Ser	Asn	Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro		
	210					215					220						
Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe		
225					230					235					240		
Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro		
				245					250					255			
Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val		
			260					265					270				
Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr		
		275					280						285				
Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val		
	290					295					300						
Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys		
305					310					315					320		
Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser		
			325					330						335			
Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro		
			340					345					350				
Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val		
	355						360				365						
Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly		
	370					375					380						
Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp		
385					390					395					400		
Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp		
			405					410						415			
Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His		
			420					425					430				
Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys				
	435						440					445					

<210> 158
 <211> 1341
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 158
 cagggtgcagc tgggtgcagtc cggagctgag gtgaagaagc caggagctag cgtgaagggtg 60
 tcttgcaagg cctccggcta caccttcaca aactatggca tgaattgggt gaggcaggct 120
 ccaggacagg gactggagtg gatgggctgg atcaacacca atacaggcga gcctacatac 180
 gccagaagc tgcagggcag ggtgaccatg acactggaca ccagcacaag aaccgcttat 240
 atggagctga ggtctctgcg gtccgacgat accgccgtgt actattgtgc tagattttct 300
 cacctgaggg gaccaatgga ttactgggga cagggcacac tggtgaccgt gtccagcgcc 360
 tctacaaagg gcccttccgt gttcccactg gctccctgct ccagaagcac atctgagtc 420
 accgccgctc tgggctgtct ggtgaaggac tacttccctg agccagtgc cgtgtcctgg 480
 aacagcggcg ccctgacatc tggcgtgcac acctttccag ctgtgctgca gtccagcggc 540
 ctgtactccc tgtcttccgt ggtgacagtg cccagctctt ccctgggcac caagacatat 600
 acctgcaacg tggaccataa gccttccaat accaaggtgg ataagagggt ggagagcaag 660
 tacggaccac cttgccacc atgtccagct cctgagtttc tgggaggacc atccgtgttc 720
 ctgtttcctc caaagcctaa ggacaccctg atgatcagcc ggacacctga ggtgacctgc 780
 gtggtggtgg acgtgtctca ggaggatcca gaggtgcagt tcaactggta cgtggatggc 840

gtggaggtgc	acaatgctaa	gaccaagcca	agagaggagc	agtttaattc	cacataccgc	900
gtggtgagcg	tgctgaccgt	gctgcatcag	gattggctga	acggcaagga	gtataagtgc	960
aaggtgtcca	ataagggcct	gcccagctct	atcgagaaga	caatcagcaa	ggctaaggga	1020
cagcctaggg	agccacaggt	gtacaccctg	cccccttctc	aggaggagat	gacaaagaac	1080
caggtgtccc	tgacctgtct	ggtgaagggc	ttctatccaa	gcgacatcgc	tgtggagtgg	1140
gagtctaattg	gccagcccga	gaacaattac	aagaccacac	caccctgtgct	ggactctgat	1200
ggctccttct	ttctgtattc	taggctgaca	gtggataagt	cccgggtggca	ggagggcaac	1260
gtgttttagct	gctctgtgat	gcacgaggcc	ctgcacaatc	attataacca	gaagtccttg	1320
agcctgtctc	tgggcaagtg	a				1341

<210> 159

<211> 219

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 159

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

<210> 160

<211> 660

<212> DNA

<213> 人工序列(Artificial Sequence)

<400> 160

gacatccaga	tgacacagtc	cccatccagc	ctgtccgcca	gcgtgggcga	tagggtgacc	60
atcacatgcc	ggtcttccca	gagcctggtg	cactctaacg	gctacaccta	tctgcattgg	120
taccagcaga	agccaggcaa	ggctcccaag	ctgctgatct	ataaggtgtc	caatagattc	180

agcggcgtgc	cttctcgctt	ttctggctcc	ggcagcggca	cagacttcac	cctgacaatc	240
agctctctgc	agccagagga	ttttgccacc	tactattgtt	ctcagtccac	ccacgtgccc	300
cctacattcg	gccagggcac	caagctggag	atcaagcgta	cgggtggccgc	tcccagcgtg	360
ttcatctttc	ccccttctga	cgagcagctg	aagtctggca	ccgcttccgt	ggtgtgcctg	420
ctgaacaatt	tctaccccag	agaggccaag	gtgcagtggg	aggtggataa	cgctctgcag	480
tccggcaata	gccaggagtc	tgtgaccgag	caggactcca	aggatagcac	atattctctg	540
tcttccaccc	tgacactgtc	taaggccgac	tacgagaagc	acaaggtgta	tgcttgcgag	600
gtgacccatc	agggcctgag	ctctcctgtg	acaaagtcct	ttaatcgcgg	cgagtgttga	660

<210> 161

<211> 446

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 161

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

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

<210> 162
 <211> 1341
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 162

caggtgcagc	tggtgcagtc	cggagctgag	gtgaagaagc	caggagctag	cgtgaaggtg	60
tcttgcaagg	cctccggcta	caccttcaca	aactatggca	tgaattgggt	gaggcaggct	120
ccaggacagg	gcctgaagtg	gatgggatgg	atcaacacca	atacaggcga	gcctacatac	180
gcccaggagc	tgcagggcag	ggtgaccatg	acactggaca	ccagcacaag	aaccgcctat	240
atggagctga	ggtctctgcg	gtccgacgat	acagccgtgt	actattgtac	cagattttct	300
cacctgaggg	gaccaatgga	ttactgggga	cagggcacac	tggtgaccgt	gtccagcgcc	360
tctacaaagg	gcccttccgt	gttcccactg	gctccctgct	ccagaagcac	atctgagtcc	420
accgccgctc	tgggctgtct	ggtgaaggac	tacttccctg	agccagtgac	cgtgtcctgg	480
aacagcggcg	ccctgacatc	tggcgtgcac	acctttccag	ctgtgctgca	gtccagcggc	540
ctgtactccc	tgtcttccgt	ggtgacagtg	cccagctctt	ccctgggcac	caagacatat	600
acctgcaacg	tggaccataa	gccttccaat	accaaggtgg	ataagagggt	ggagagcaag	660
tacggaccac	cttgcccacc	atgtccagct	cctgagtttc	tgggaggacc	atccgtgttc	720
ctgtttcctc	caaagcctaa	ggacaccctg	atgatcagcc	ggacacctga	ggtgacctgc	780
gtgggtgggtg	acgtgtctca	ggaggatcca	gaggtgcagt	tcaactggta	cgtggatggc	840
gtggaggtgc	acaatgctaa	gaccaagcca	agagaggagc	agtttaattc	cacataccgc	900
gtggtgagcg	tgctgaccgt	gctgcatcag	gattggctga	acggcaagga	gtataagtgc	960
aaggtgtcca	ataagggcct	gcccagctct	atcgagaaga	caatcagcaa	ggctaaggga	1020
cagcctaggg	agccacagg	gtacaccctg	cccccttctc	aggaggagat	gacaaagaac	1080
caggtgtccc	tgacctgtct	ggtgaagggc	ttctatccaa	gcgacatcgc	tgtggagtgg	1140
gagtctaata	gccagcccga	gaacaattac	aagaccacac	caccctgtct	ggactctgat	1200
ggctccttct	ttctgtattc	taggctgaca	gtggataagt	cccgggtggc	ggagggcaac	1260
gtgttttagct	gctctgtgat	gcacgaggcc	ctgcacaatc	attataccca	gaagtcctctg	1320
agcctgtctc	tgggcaagtg	a				1341

<210> 163
 <211> 219
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 163

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

<210> 164
 <211> 660
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 164	
gacatccaga	tgacacagtc cccatccagc ctgtccgccg gcgtgggcga tagggtgacc 60
atcacatgcc	ggtcttccca gagcctgggtg cactctaacg gctacaccta tctgcattgg 120
taccagcaga	agccaggcaa ggctcccaag ctgctgatct ataaggtgtc caatagattc 180
agcggcgtgc	cttctcgctt ttctggctcc ggcagcggca cagacttcac cctgacaatc 240
agctctctgc	agccagagga ttttgccacc tactattgtt ctcagtccac ccacgtgccc 300
cctacattcg	gccagggcac caagctggag atcaagcgta cgggtggccgc tcccagcgtg 360
ttcatctttc	ccccttctga cgagcagctg aagtctggca ccgcttccgt ggtgtgcctg 420
ctgaacaatt	tctaccccag agaggccaag gtgcagtgga aggtggataa cgctctgcag 480
tccggcaata	gccaggagtc tgtgaccgag caggactcca aggatagcac atattctctg 540
tcttccaccc	tgacactgtc taaggccgac tacgagaagc acaaggtgta tgcttgcgag 600
gtgacccatc	agggcctgag ctctcctgtg acaaagtcct ttaatcgcgg cgagtgttga 660

<210> 165
 <211> 446
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 165
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

1				5				10					15				
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Asn	Tyr		
			20					25					30				
Gly	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Lys	Trp	Met		
		35					40					45					
Gly	Trp	Ile	Asn	Thr	Asn	Thr	Gly	Glu	Pro	Thr	Tyr	Ala	Gln	Glu	Leu		
	50					55					60						
Gln	Gly	Arg	Val	Thr	Met	Thr	Leu	Asp	Thr	Ser	Thr	Arg	Thr	Ala	Tyr		
65					70					75					80		
Met	Glu	Leu	Arg	Ser	Leu	Arg	Ser	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
				85				90						95			
Ala	Arg	Phe	Ser	His	Leu	Arg	Gly	Pro	Met	Asp	Tyr	Trp	Gly	Gln	Gly		
			100					105					110				
Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe		
		115					120					125					
Pro	Leu	Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu		
	130					135					140						
Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp		
145					150					155					160		
Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu		
				165				170						175			
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser		
			180					185					190				
Ser	Ser	Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro		
	195					200						205					
Ser	Asn	Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro		
	210					215					220						
Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe		
225					230					235					240		
Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro		
				245					250					255			
Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val		
			260					265					270				
Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr		
		275					280					285					
Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val		
	290					295					300						
Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys		
305					310					315					320		
Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser		
				325				330						335			
Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro		
			340					345					350				
Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val		
		355					360					365					
Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly		
	370					375					380						
Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp		
385					390					395					400		
Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp		
				405				410						415			
Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His		
			420					425					430				
Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys				

<210> 166
 <211> 1341
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 166
 cagggtgcagc tgggtgcagtc cggagctgag gtgaagaagc caggagctag cgtgaagggtg 60
 tcttgcaagg cctccggcta caccttcaca aactatggca tgaattgggt gaggcaggct 120
 ccaggacagg gcctgaagtg gatgggatgg atcaacacca atacaggcga gcctacatac 180
 gcccaggagc tgcagggcag ggtgaccatg acactggaca ccagcacaag aaccgcttat 240
 atggagctga ggtctctgcg gtccgacgat accgccgtgt actattgtgc tagattttct 300
 cacctgaggg gaccaatgga ttactgggga cagggcacac tggtgaccgt gtccagcgcc 360
 tctacaaagg gcccttccgt gttcccactg gctccctgct ccagaagcac atctgagtcc 420
 accgccgctc tgggctgtct ggtgaaggac tacttccctg agccagtgc cgtgtcctgg 480
 aacagcggcg ccctgacatc tggcgtgcac acctttccag ctgtgctgca gtccagcggc 540
 ctgtactccc tgtcttccgt ggtgacagt cccagctctt ccctgggcac caagacatat 600
 acctgcaacg tggaccataa gccttccaat accaagggtg ataagagggt ggagagcaag 660
 tacggaccac cttgccacc atgtccagct cctgagtttc tgggaggacc atccgtgttc 720
 ctgtttcctc caaagcctaa ggacaccctg atgatcagcc ggacacctga ggtgacctgc 780
 gtgggtgggtg acgtgtctca ggaggatcca gaggtgcagt tcaactggta cgtggatggc 840
 gtggaggtgc acaatgctaa gaccaagcca agagaggagc agtttaattc cacataccgc 900
 gtggtgagcg tgctgaccgt gctgcatcag gattggctga acggcaagga gtataagtgc 960
 aaggtgtcca ataaggcctt gccagctct atcgagaaga caatcagcaa ggctaaggga 1020
 cagcctaggg agccacaggt gtacaccctg ccccttctc aggaggagat gacaaagaac 1080
 cagggtgtccc tgacctgtct ggtgaagggc ttctatccaa gcgacatcgc tgtggagtgg 1140
 gagtctaata gccagcccga gaacaattac aagaccacac caccctgtgt ggactctgat 1200
 ggctccttct ttctgtattc taggctgaca gtggataagt cccggtggca ggagggaac 1260
 gtgttttagct gctctgtgat gcacaggcc ctgcacaatc attataccca gaagtcctgt 1320
 agcctgtctc tgggcaagtg a 1341

<210> 167
 <211> 219
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 167
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Tyr Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Ser Gln Ser
 85 90 95
 Thr His Val Pro Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125

Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
130						135					140				
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
145					150					155					160
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
				165					170					175	
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
			180				185						190		
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
	195					200						205			
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys					
210						215									

<210> 168
 <211> 660
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 168	
gacatccaga tgacacagtc cccatccagc ctgtccgccg gcgtgggcga tagggtgacc	60
atcacatgcc ggtcttccca gagcctggtg cactctaacg gctacaccta tctgcattgg	120
taccagcaga agccaggcaa ggctcccaag ctgctgatct ataaggtgtc caatagattc	180
agcggcgtgc cttctcgctt ttctggctcc ggcagcggca cagacttcac cctgacaatc	240
agctctctgc agccagagga ttttgccacc tactattgtt ctcagtccac ccacgtgccc	300
cctacattcg gccagggcac caagctggag atcaagcgta cgggtggccgc tcccagcgtg	360
ttcatctttc ccccttctga cgagcagctg aagtctggca ccgcttccgt ggtgtgcctg	420
ctgaacaatt tctacccag agaggccaag gtgcagtggga aggtggataa cgctctgcag	480
tccggcaata gccaggagtc tgtgaccgag caggactcca aggatagcac atattctctg	540
tcttccaccc tgacactgtc taaggccgac tacgagaagc acaaggtgta tgcttgcgag	600
gtgacccatc agggcctgag ctctcctgtg acaaagtcct ttaatcgcgg cgagtgttga	660

<210> 169
 <211> 446
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 169	
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala	
1 5 10 15	
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr	
20 25 30	
Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Lys Trp Met	
35 40 45	
Gly Trp Ile Asn Thr Asn Thr Gly Glu Pro Thr Tyr Ala Gln Glu Leu	
50 55 60	
Gln Gly Arg Val Thr Met Thr Leu Asp Thr Ser Thr Arg Thr Ala Tyr	
65 70 75 80	
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys	
85 90 95	
Ala Arg Phe Ser His Leu Arg Gly Pro Met Asp Tyr Trp Gly Gln Gly	
100 105 110	
Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe	
115 120 125	
Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu	

130	135	140	
Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp			
145	150	155	160
Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu			
	165	170	175
Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser			
	180	185	190
Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro			
	195	200	205
Ser Asn Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro			
	210	215	220
Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe			
225	230	235	240
Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro			
	245	250	255
Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val			
	260	265	270
Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr			
	275	280	285
Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val			
	290	295	300
Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys			
305	310	315	320
Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser			
	325	330	335
Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro			
	340	345	350
Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val			
	355	360	365
Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly			
	370	375	380
Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp			
385	390	395	400
Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp			
	405	410	415
Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His			
	420	425	430
Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys			
	435	440	445

<210> 170
 <211> 1341
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 170	
caggtgcagc tgggtgcagtc cggagctgag gtgaagaagc caggagctag cgtgaagggtg	60
tcttgcaagg cctccggcta caccttcaca aactatggca tgaattgggt gaggcaggct	120
ccaggacagg gcctgaagtg gatgggatgg atcaacacca atacaggcga gcctacatac	180
gccaggagc tgcagggcag ggtgaccatg acactggaca ccagcacaag aaccgcttat	240
atggagctga ggtctctgcg gtccgacgat accgccgtgt actattgtgc tagattttct	300
cacctgaggg gaccaatgga ttactgggga cagggcacac tgggtgaccgt gtccagcgcc	360
tctacaaagg gcccttcctg gttcccactg gctccctgct ccagaagcac atctgagtcc	420
accgccgctc tgggctgtct ggtgaaggac tacttccctg agccagtgc cgtgtcctgg	480

aacagcggcg	ccctgacatc	tggcgtgcac	acctttccag	ctgtgctgca	gtccagcggc	540
ctgtactccc	tgtcttccgt	ggtgacagt	cccagctctt	ccctgggcac	caagacatat	600
acctgcaacg	tggaccataa	gccttccaat	accaaggtgg	ataagagggt	ggagagcaag	660
tacggaccac	cttgcccacc	atgtccagct	cctgagtttc	tgggaggacc	atccgtgttc	720
ctgtttcctc	caaagcctaa	ggacaccctg	atgatcagcc	ggacacctga	ggtgacctgc	780
gtgggtgggtg	acgtgtctca	ggaggatcca	gaggtgcagt	tcaactggta	cgtggatggc	840
gtggagggtgc	acaatgctaa	gaccaagcca	agagaggagc	agtttaattc	cacataccgc	900
gtggtgagcg	tgctgaccgt	gctgcatcag	gattggctga	acggcaagga	gtataagtgc	960
aaggtgtcca	ataagggcct	gcccagctct	atcgagaaga	caatcagcaa	ggctaaggga	1020
cagcctaggg	agccacaggt	gtacaccctg	cccccttctc	aggaggagat	gacaaaagaac	1080
caggtgtccc	tgacctgtct	ggtgaagggc	ttctatccaa	gcgacatcgc	tgtggagtgg	1140
gagtctaattg	gccagcccga	gaacaattac	aagaccacac	caccctgtgct	ggactctgat	1200
ggctccttct	ttctgtattc	taggctgaca	gtggataagt	cccgggtggca	ggagggcaac	1260
gtgttttagct	gctctgtgat	gcacagggcc	ctgcacaatc	attataccca	gaagtccttg	1320
agcctgtctc	tgggcaagtg	a				1341

<210> 171

<211> 219

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 171

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

<210> 172

<211> 660

<212> DNA

<213> 人工序列(Artificial Sequence)

<400> 172

gacgcccaga	tgacacagtc	cccatccagc	ctgtccgcta	gcgtgggcga	tagggtgacc	60
atcacatgcc	ggtcttccca	gagcctggtg	cactctaacg	gctacaccta	tctgcattgg	120
taccagcaga	agccaggcaa	ggcccccaag	ctgctgatct	ataaggtgtc	caatagattc	180
agcggcgtgc	cttctcgctt	ttctggctcc	ggcagcggca	cagacttcac	cctgacaatc	240
agctctctgc	agccagagga	ttttgctacc	tactattggt	ctcagtccac	ccacgtgccc	300
cctacattcg	gccagggcac	caagctggag	atcaagcgta	cgggtggccgc	tcccagcgtg	360
ttcatctttc	cccccttcta	cgagcagctg	aagtctggca	ccgcttccgt	ggtgtgcctg	420
ctgaacaatt	tctaccccag	agaggccaag	gtgcagtggg	aggtggataa	cgctctgcag	480
tccggcaata	gccaggagtc	tgtgaccgag	caggactcca	aggatagcac	atattctctg	540
tcttccaccc	tgacactgtc	taaggccgac	tacgagaagc	acaaggtgta	tgcttgcgag	600
gtgacccatc	agggcctgag	ctctcctgtg	acaaagtcct	ttaatcgcgg	cgagtgttga	660

<210> 173

<211> 446

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 173

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

			260					265					270			
Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	
		275					280					285				
Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	
	290					295					300					
Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	
305					310					315					320	
Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	
			325						330					335		
Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	
			340					345					350			
Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	
		355					360					365				
Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	
	370					375					380					
Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	
385					390					395					400	
Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	
			405						410					415		
Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	
			420					425					430			
Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys			
		435					440					445				

<400> 174

<210> 175
 <211> 219
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 175
 Asp Ala Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Tyr Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Ser Gln Ser
 85 90 95
 Thr His Val Pro Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 176
 <211> 660
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 176
 gacgccaga tgacacagtc cccatccagc ctgtccgcta gcgtgggcga tagggtgacc 60
 atcacatgcc ggtcttccca gagcctggtg cactctaacg gctacaccta tctgcattgg 120
 taccagcaga agccaggcaa ggccccaag ctgctgatct ataaggtgtc caatagattc 180
 agcggcgtgc cttctcgctt ttctggctcc ggcagcggca cagacttcac cctgacaatc 240
 agctctctgc agccagagga ttttgctacc tactattggt ctcagtccac ccacgtgccc 300
 cctacattcg gccaggcac caagctggag atcaagcgta cgggtggccgc tcccagcgtg 360
 ttcatctttc ccccttctga cgagcagctg aagtctggca ccgcttccgt ggtgtgcctg 420
 ctgaacaatt tctacccag agaggccaag gtgcagtggga aggtggataa cgctctgcag 480
 tccggcaata gccaggagtc tgtgaccgag caggactcca aggatagcac atattctctg 540
 tcttccacc tgacactgtc taaggccgac tacgagaagc acaaggtgta tgcttgcgag 600
 gtgacccatc agggcctgag ctctcctgtg acaaagtcct ttaatcgcgg cgagtgttga 660

<210> 177

<211> 446
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 177

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1			5						10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Asn	Tyr
		20					25						30		
Gly	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Lys	Trp	Met
	35					40						45			
Gly	Trp	Ile	Asn	Thr	Asn	Thr	Gly	Glu	Pro	Thr	Tyr	Ala	Gln	Glu	Leu
	50				55						60				
Gln	Gly	Arg	Val	Thr	Met	Thr	Leu	Asp	Thr	Ser	Thr	Arg	Thr	Ala	Tyr
65					70				75					80	
Met	Glu	Leu	Arg	Ser	Leu	Arg	Ser	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90					95		
Thr	Arg	Phe	Ser	His	Leu	Arg	Gly	Pro	Met	Asp	Tyr	Trp	Gly	Gln	Gly
			100				105						110		
Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe
		115					120					125			
Pro	Leu	Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu
	130				135						140				
Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp
145				150					155					160	
Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu
			165				170						175		
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser
			180				185						190		
Ser	Ser	Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro
	195					200						205			
Ser	Asn	Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro
	210				215						220				
Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe
225				230					235					240	
Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro
			245					250						255	
Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val
		260				265						270			
Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr
	275					280					285				
Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val
	290				295						300				
Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys
305				310					315					320	
Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser
			325					330					335		
Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro
		340					345						350		
Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val
	355					360						365			
Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly
	370				375						380				
Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp

385				390				395				400			
Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp
				405				410						415	
Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His
			420					425						430	
Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys		
		435					440					445			

<210> 178
 <211> 1341
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 178

cagggtgcagc	tggtgcagtc	cggagctgag	gtgaagaagc	caggagctag	cgtgaaggtg	60
tcttgcaagg	cctccggcta	caccttcaca	aactatggca	tgaattgggt	gaggcaggct	120
ccaggacagg	gcctgaagtg	gatgggatgg	atcaacacca	atacaggcga	gcctacatac	180
gcccaggagc	tgcaaggcag	ggtgaccatg	acactggaca	ccagcacaag	aaccgcctat	240
atggagctga	ggtctctgcg	gtccgacgat	acagccgtgt	actattgtac	cagattttct	300
cacctgaggg	gaccaatgga	ttactgggga	cagggcacac	tggtgaccgt	gtccagcgcc	360
tctacaaagg	gcccttccgt	gttcccactg	gctccctgct	ccagaagcac	atctgagtcc	420
accgccgctc	tgggctgtct	ggtgaaggac	tacttccctg	agccagtgac	cgtgtcctgg	480
aacagcggcg	ccctgacatc	tggcgtgcac	acctttccag	ctgtgctgca	gtccagcggc	540
ctgtactccc	tgtcttccgt	ggtgacagtg	cccagctctt	ccctgggcac	caagacatat	600
acctgcaacg	tggaccataa	gccttccaat	accaaggtgg	ataagagggt	ggagagcaag	660
tacggaccac	cttgcccacc	atgtccagct	cctgagtttc	tgggaggacc	atccgtgttc	720
ctgtttcctc	caaagcctaa	ggacaccctg	atgatcagcc	ggacacctga	ggtgacctgc	780
gtgggtgggtg	acgtgtctca	ggaggatcca	gaggtgcagt	tcaactggta	cgtggatggc	840
gtggaggtgc	acaatgctaa	gaccaagcca	agagaggagc	agtttaattc	cacataccgc	900
gtggtgagcg	tgctgaccgt	gctgcatcag	gattggctga	acggcaagga	gtataagtgc	960
aaggtgtcca	ataagggcct	gcccagctct	atcgagaaga	caatcagcaa	ggctaaggga	1020
cagcctaggg	agccacaggt	gtacaccctg	cccccttctc	aggaggagat	gacaaagaac	1080
cagggtgtccc	tgacctgtct	ggtgaagggc	ttctatccaa	gcgacatcgc	tgtggagtgg	1140
gagtctaattg	gccagcccgga	gaacaattac	aagaccacac	caccctgtgct	ggactctgat	1200
ggctccttct	ttctgtattc	taggctgaca	gtggataagt	cccgggtggca	ggaggggcaac	1260
gtgttttagct	gctctgtgat	gcacgaggcc	ctgcacaatc	attataccca	gaagtcctctg	1320
agcctgtctc	tgggcaagtg	a				1341

<210> 179
 <211> 219
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 179

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

Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Ser	Gln	Ser
			85						90					95	
Thr	His	Val	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys
			100					105					110		
Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu
		115					120					125			
Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
	130					135					140				
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
145					150					155					160
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
			165						170					175	
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
		180					185						190		
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
	195					200						205			
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys					
	210					215									

<210> 180
 <211> 660
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 180	
gacgcccgaga tgacacagtc cccatccagc ctgtccgcta gcgtgggcga tagggtgacc	60
atcacatgcc ggtcttccca gagcctggtg cactctaacg gctacaccta tctgcattgg	120
taccagcaga agccaggcaa ggcccccaag ctgctgatct ataagggtgtc caatagattc	180
agcggcgtgc cttctcgctt ttctggctcc ggcagcggca cagacttcac cctgacaatc	240
agctctctgc agccagagga ttttgctacc tactattgtt ctcagtccac ccacgtgccc	300
cctacattcg gccagggcac caagctggag atcaagcgta cgggtggccgc tcccagcgtg	360
ttcatctttc ccccttctga cgagcagctg aagtctggca ccgcttccgt ggtgtgcctg	420
ctgaacaatt tctacccag agaggccaag gtgcagtgga aggtggataa cgctctgcag	480
tccggcaata gccaggagtc tgtgaccgag caggactcca aggatagcac atattctctg	540
tcttccaccc tgacactgtc taaggccgac tacgagaagc acaagggtgta tgcttgcgag	600
gtgacccatc agggcctgag ctctcctgtg acaaagtcct ttaatcgcgg cgagtgttga	660

<210> 181
 <211> 447
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 181	
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala	
1 5 10 15	
Ser Val Lys Val Ser Cys Lys Val Ser Gly Phe Asn Ile Glu Asp Asp	
20 25 30	
Tyr Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met	
35 40 45	
Gly Arg Ile Asp Pro Ala Asn Asp Lys Thr Lys Tyr Ala Gln Lys Phe	
50 55 60	
Gln Gly Arg Val Thr Met Thr Gly Asp Thr Ser Thr Asn Thr Val Tyr	
65 70 75 80	
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys	

				85				90					95				
Ala	Arg	Pro	Gly	Leu	Arg	Arg	Tyr	Tyr	Ser	Met	Asp	Tyr	Trp	Gly	Gln		
			100					105					110				
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val		
		115					120					125					
Phe	Pro	Leu	Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala		
		130				135					140						
Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser		
145					150					155					160		
Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val		
			165					170						175			
Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro		
			180					185					190				
Ser	Ser	Ser	Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys		
		195				200						205					
Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro		
		210				215					220						
Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val		
225				230						235					240		
Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr		
			245					250						255			
Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu		
		260						265					270				
Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys		
	275					280						285					
Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser		
	290					295					300						
Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys		
305				310						315					320		
Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile		
			325					330						335			
Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro		
		340						345					350				
Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu		
		355					360					365					
Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn		
	370				375						380						
Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser		
385				390						395					400		
Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg		
			405					410						415			
Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu		
		420					425						430				
His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys			
	435					440						445					

<210> 182
 <211> 1344
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 182
 caggtgcagc tgggtgcagtc cggagctgag gtgaagaagc caggagctag cgtgaaggtg
 tcttgcaagg tgtccggctt caacatcgag gacgattaca tcgagtgggt gaggcaggct

60
 120

ccaggacagg	gactggagtg	gatgggaagg	atcgaccctg	ccaacgataa	gacaaagtac	180
gctcagaagt	ttcagggcag	agtgaccatg	acaggcgaca	ccagcacaaa	taccgtgtat	240
atggagctgt	ccagcctgcg	ctctgaggat	accgccgtgt	actattgtgc	taggcccggc	300
ctgagacgct	actattccat	ggactattgg	ggccagggca	cactggtgac	cgtgtcttcc	360
gcctctacaa	agggcccttc	cgtgttccca	ctggctccct	gctccagaag	cacatctgag	420
tccaccgccg	ctctgggctg	tctggtgaag	gactacttcc	ctgagccagt	gaccgtgtcc	480
tggaacagcg	gcgcccgtac	atctggcgtg	cacacctttc	cagctgtgct	gcagtccagc	540
ggcctgtact	ccctgtcttc	cgtggtgaca	gtgcccagct	cttccctggg	caccaagaca	600
tatacctgca	acgtggacca	taagccttcc	aataccaagg	tgataaagag	ggtggagagc	660
aagtacggac	caccttgccc	accatgtcca	gctcctgagt	ttctgggagg	accatccgtg	720
ttcctgtttc	ctccaaagcc	taaggacacc	ctgatgatca	gccggacacc	tgaggtgacc	780
tgcgtggtgg	tggacgtgtc	tcaggaggat	ccagaggtgc	agttcaactg	gtacgtggat	840
ggcgtggagg	tgcacaatgc	taagaccaag	ccaagagagg	agcagtttaa	ttccacatac	900
cgcgtggtga	gcgtgctgac	cgtgctgcat	caggattggc	tgaacggcaa	ggagtataag	960
tgcaaggtgt	ccaataaggg	cctgcccagc	tctatcgaga	agacaatcag	caaggctaag	1020
ggacagccta	gggagccaca	ggtgtacacc	ctgccccctt	ctcaggagga	gatgacaaag	1080
aaccaggtgt	ccctgacctg	tctggtgaag	ggcttctatc	caagcgacat	cgctgtggag	1140
tgggagtcta	atggccagcc	cgagaacaat	tacaagacca	caccaccctg	gctggactct	1200
gatggctcct	tctttctgta	ttctaggctg	acagtggata	agtcccgggtg	gcaggagggc	1260
aacgtgttta	gctgctctgt	gatgcacgag	gccctgcaca	atcattatac	ccagaagtcc	1320
ctgagcctgt	ctctgggcaa	gtga				1344

<210> 183

<211> 214

<212> PRT

<213> 人工序列(Artificial Sequence)

<400> 183

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

Phe Asn Arg Gly Glu Cys
210

<210> 184
<211> 645
<212> DNA
<213> 人工序列(Artificial Sequence)

<400> 184
gacatccaga tgacccagag cccttccagc ctgtccgccg gcgtgggcga tagggtgacc 60
atcacatgca aggcttctga gaacgtggtg tcctacgtga gctggtatca gcagaagccc 120
ggcaaggccc ctaagctgct gatctacggc gcttctaata ggtataccgg agtgccatcc 180
cggttcatcg gatccggctc ttccacagac tttaccctga caatcagctc tctgcagcca 240
gaggatttcg ccacatacta ttgtggccag agctactctt atcccctgac ctttggccag 300
ggcacaaagc tggagatcaa gcgtacggtg gccgctccca gcgtgttcat ctttccccct 360
tctgacgagc agctgaagtc tggcaccgct tccgtggtgt gcctgctgaa caatttctac 420
cccagagagg ccaaggtgca gtggaagggt gataacgctc tgcagtccgg caatagccag 480
gagtctgtga ccgagcagga ctccaaggat agcacatatt ctctgtcttc caccctgaca 540
ctgtctaagg ccgactacga gaagcacaag gtgtatgctt gcgaggtgac ccatcagggc 600
ctgagctctc ctgtgacaaa gtcctttaat cgcggcgagt gttga 645

<210> 185
<211> 447
<212> PRT
<213> 人工序列(Artificial Sequence)

<400> 185
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Val Ser Gly Phe Asn Ile Glu Asp Asp
20 25 30
Tyr Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Arg Ile Asp Pro Ala Asn Asp Lys Thr Lys Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Met Thr Gly Asp Thr Ser Thr Asn Thr Val Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Thr Arg Pro Gly Leu Arg Arg Tyr Tyr Ser Met Asp Tyr Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
115 120 125
Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala
130 135 140
Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145 150 155 160
Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
165 170 175
Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
180 185 190
Ser Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys
195 200 205
Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro

210	215	220
Pro Cys Pro Pro Cys	Pro Ala Pro Glu Phe Leu	Gly Gly Pro Ser Val
225	230	235
Phe Leu Phe Pro Pro	Lys Pro Lys Asp Thr Leu	Met Ile Ser Arg Thr
245	250	255
Pro Glu Val Thr Cys Val Val	Val Asp Val Ser Gln Glu	Asp Pro Glu
260	265	270
Val Gln Phe Asn Trp Tyr Val	Asp Gly Val Glu Val His	Asn Ala Lys
275	280	285
Thr Lys Pro Arg Glu Glu Gln	Phe Asn Ser Thr Tyr Arg	Val Val Ser
290	295	300
Val Leu Thr Val Leu His Gln	Asp Trp Leu Asn Gly	Lys Glu Tyr Lys
305	310	315
Cys Lys Val Ser Asn Lys Gly	Leu Pro Ser Ser Ile	Glu Lys Thr Ile
325	330	335
Ser Lys Ala Lys Gly Gln Pro	Arg Glu Pro Gln Val Tyr	Thr Leu Pro
340	345	350
Pro Ser Gln Glu Glu Met Thr	Lys Asn Gln Val Ser Leu	Thr Cys Leu
355	360	365
Val Lys Gly Phe Tyr Pro Ser	Asp Ile Ala Val Glu Trp	Glu Ser Asn
370	375	380
Gly Gln Pro Glu Asn Asn Tyr	Lys Thr Thr Pro Pro	Val Leu Asp Ser
385	390	395
Asp Gly Ser Phe Phe Leu Tyr	Ser Arg Leu Thr Val Asp	Lys Ser Arg
405	410	415
Trp Gln Glu Gly Asn Val Phe	Ser Cys Ser Val Met His	Glu Ala Leu
420	425	430
His Asn His Tyr Thr Gln Lys	Ser Leu Ser Leu Ser Leu	Gly Lys
435	440	445

<210> 186
 <211> 1344
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 186
 cagggtgcagc tgggtgcagtc cggagctgag gtgaagaagc caggagctag cgtgaagggtg 60
 tcttgcaagg tgtccggctt caacatcgag gacgattaca tcgagtgggt gaggcaggct 120
 ccaggacagg gactggagtg gatgggaagg atcgaccctg ccaacgataa gacaaagtac 180
 gctcagaagt ttcagggcag agtgaccatg acaggcgaca ccagcacaaa taccgtgtat 240
 atggagctgt ccagcctgcg ctctgaggat acagccgtgt actattgtac caggcccggc 300
 ctgagacgct actattccat ggactattgg ggccagggca cactggtgac cgtgtcttcc 360
 gcctctacaa agggcccttc cgtgttccca ctggctccct gctccagaag cacatctgag 420
 tccaccgccg ctctgggctg tctgggtgaag gactacttcc ctgagccagt gaccgtgtcc 480
 tggaacagcg gcgccctgac atctggcgtg cacaccttcc cagctgtgct gcagtccagc 540
 ggctgtact ccctgtcttc cgtggtgaca gtgccagct cttccctggg caccaagaca 600
 tatacctgca acgtggacca taagccttcc aataccaagg tggataagag ggtggagagc 660
 aagtacggac caccttgccc accatgtcca gctcctgagt ttctgggagg accatccgtg 720
 ttctgtttc ctccaaagcc taaggacacc ctgatgatca gccggacacc tgaggtgacc 780
 tgcgtgggtgg tggacgtgtc tcaggaggat ccagagggtgc agttcaactg gtacgtggat 840
 ggctgtggagg tgcacaatgc taagaccaag ccaagagagg agcagtttaa ttccacatac 900
 cgctgtgtga gcgtgtgac cgtgtgcat caggattggc tgaacggcaa ggagtataag 960
 tgcaaggtgt ccaataaggg cctgcccagc tctatcgaga agacaatcag caaggctaag 1020
 ggacagccta gggagccaca ggtgtacacc ctgcccctt ctcaggagga gatgacaaag 1080

aaccaggtgt	ccctgacctg	tctggtgaag	ggcttctatc	caagcgacat	cgctgtggag	1140
tgggagtcta	atggccagcc	cgagaacaat	tacaagacca	caccaccctg	gctggactct	1200
gatggctcct	tctttctgta	ttctaggctg	acagtggata	agtcccgggtg	gcaggagggc	1260
aacgtgttta	gctgctctgt	gatgcacgag	gccctgcaca	atcattatac	ccagaagtcc	1320
ctgagcctgt	ctctgggcaa	gtga				1344

<210> 187
 <211> 214
 <212> PRT
 <213> 人工序列(Artificial Sequence)

<400> 187
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Glu Asn Val Val Ser Tyr
 20 25 30
 Val Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Gly Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ile Gly
 50 55 60
 Ser Gly Ser Ser Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gly Gln Ser Tyr Ser Tyr Pro Leu
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205
 Phe Asn Arg Gly Glu Cys
 210

<210> 188
 <211> 645
 <212> DNA
 <213> 人工序列(Artificial Sequence)

<400> 188
 gacatccaga tgacctcagag cccttcacgc ctgtccgccg gcgtgggcga tagggtgacc 60
 atcacatgca aggcttctga gaacgtgggtg tcctacgtga gctgggtatca gcagaagccc 120
 ggcaaggccc ctaagctgct gatctacggc gcttctaata ggtataccgg agtgccatcc 180
 cggttcatcg gatccggctc ttccacagac tttaccctga caatcagctc tctgcagcca 240
 gaggatttcg ccacatacta ttgtggccag agctactctt atcccctgac ctttgccag 300
 ggacaaaagc tggagatcaa gcgtacgggtg gccgctccca gcgtgttcat ctttcccct 360
 tctgacgagc agctgaagtc tggcaccgct tccgtgggtg gcctgctgaa caatttctac 420

cccagagagg	ccaaggtgca	gtggaaggtg	gataacgctc	tgcagtccgg	caatagccag	480
gagtctgtga	ccgagcagga	ctccaaggat	agcacatatt	ctctgtcttc	caccctgaca	540
ctgtctaagg	ccgactacga	gaagcacaag	gtgtatgctt	gcgaggtgac	ccatcagggc	600
ctgagctctc	ctgtgacaaa	gtcctttaat	cgcggcgagt	gttga		645

<210> 189
 <211> 348
 <212> DNA
 <213> Mus musculus

<400> 189						
caggtgcagc	tgaaggagtc	tggaccagga	ctggtggctc	catctcagtc	cctgagcatc	60
acctgcacag	tgtccggctt	cagcctgacc	aactacggag	tgcactgggt	gaggcagcca	120
cctggcaagg	gactggagtg	gctgggcatc	atctgggctg	gcggctccac	aaactataat	180
tctgccctga	tgtcccgct	gtctatctcc	aaggacaaca	gcaagtctca	ggtgtttctg	240
aagatgaata	gcctgcagac	cgacgataca	gccatgtact	attgtgctag	ggacgattac	300
gccagcatgg	attattgggg	ccagggcacc	tctgtgacag	tgtccagc		348

<210> 190
 <211> 336
 <212> DNA
 <213> Mus musculus

<400> 190						
gacgccttca	tgaccagac	accactgtcc	ctgcctgtga	gcctgggcga	tcaggcttct	60
atctcctgca	gatccagcca	gtctctgggtg	cactccaacg	gcaatacata	cctgcattgg	120
tatctgcaga	agccaggcca	gtccccaag	ctgctgatct	acaaggtgag	caacaggttc	180
tctggcgtgc	ctgaccggtt	tagcggctct	ggctccggca	ccgatttcac	actgaagatc	240
tccagggtgg	aggctgagga	cctgggcgtg	tacttttgta	gccagtctac	ccacgtgcc	300
tatacactgg	gcggcggcac	caagctggag	atcaag			336

<210> 191
 <211> 357
 <212> DNA
 <213> Mus musculus

<400> 191						
gaggtgcagc	tgcagcagtc	tggccccgag	ctgaagaagc	ctggcgagac	cgtgaagatc	60
tcttgcaagg	cctccggcta	caccttcaca	aactatggca	tgaattgggt	gaagcaggtg	120
ccaggcaagg	gcctgaagtg	gatgggctgg	atcaacacca	atacaggcga	gcccacatac	180
gccgaggagt	tcaagggcag	attcgctttt	agcctggaga	cctctgcccg	cacagctttt	240
ctgcagatca	acaatctgaa	gaacgaggac	accgccacat	acttctgtac	caggttttcc	300
cacctgcggg	gccccatgga	ttattggggc	cagggcgcta	gcgtgacagt	gtccagc	357

<210> 192
 <211> 336
 <212> DNA
 <213> Mus musculus

<400> 192						
gacgccgtga	tgaccagac	accactgtcc	ctgcccgtga	gcctgggcga	tcaggcttct	60
atctcctgca	gatccagcca	gtctctgggtg	cactccaacg	gctacacata	tctgcattgg	120
tacctgcaga	agcctggcca	gtcccaaaag	ctgctgatct	ataaggtgag	caataggttc	180
tctggagtg	cagaccggtt	tagcggatct	ggatccggca	ccgatttcac	actgaagatc	240

tccaggctgg	aggctgagga	cctgggcgtg	tactttctgta	gccagtctac	ccacgtgccc	300
cctacatttg	gcggcggcac	caagctggag	atcaag			336

<210> 193
 <211> 336
 <212> DNA
 <213> Mus musculus

<400> 193						
gaagtgatgc	tggtggagag	cggaggagga	ctggtgcagc	caggaggcag	cctgaagctg	60
tcttgcgccg	cttccggcctt	caccttttagc	aactactata	tgtcttgggt	gagacagaca	120
cccgagaagc	gcctggagtg	ggtggccttac	atctccagcg	gaggaggatc	cacctactat	180
cctgacagcg	tgaagggcag	gttcaccatc	tctcgggata	acgccaagaa	tacactgtac	240
ctgcagatgt	cttccctgaa	gtccgaggac	acagctatgt	actattgtgc	ctggtttgct	300
tattggggcc	agggcaccct	ggtgacagtg	tctgct			336

<210> 194
 <211> 336
 <212> DNA
 <213> Mus musculus

<400> 194						
gacgccgtgg	tgaccagac	accactgacc	ctgtccgtga	caatcggcca	gcccgtttct	60
atctcctgca	agtccagcca	gtcccgtctg	gacagcgatg	gcaagacata	cctgaactgg	120
ctgctgcaga	ggccaggaca	gagccctaag	cggctgatct	atctggtgtc	taagctggac	180
tccggcgtgc	ctgatagatt	caccggcagc	ggctctggca	ccgactttac	actgaagatc	240
tctcgcgtgg	aggccgagga	tctgggcgtg	tactattgtt	ggcagggcac	ccacttccca	300
ctgacatttg	gcgctggcac	caagctggag	ctgaag			336

<210> 195
 <211> 351
 <212> DNA
 <213> Mus musculus

<400> 195						
gaggtgcagc	tgcagcagtc	tgtggccgag	ctgatgaagc	caggcgcttc	cgtgaagatc	60
tactgcaagg	ccaccggcta	cacattcagc	agatattgga	tcgagtgggt	gaagcagagg	120
ccaggacacg	gactggagtg	gacggcgag	ttcatccctg	gctctgacac	cacaaacttc	180
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