

606772000940SEQLIST

SEQUENCE LISTING

<110> DAS , Subash Chandra
 SANTANGELO, Joseph David
 STINCHOMB, Dan Thomas
 OSORIO, Jorge E.

<120> Hand, Foot, and Mouth Vaccines and
 Methods of Manufacture and Uses Thereof

<130> 606772000940

<140> Not Yet Assigned

<141> Concurrently Herewith

<150> US 62/077,139

<151> 2014-11-07

<160> 44

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 297

<212> PRT

<213> Enterovirus 71

<400> 1

```

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

```

606772000940SEQLIST

<210> 2
 <211> 305
 <212> PRT
 <213> Coxsackievirus A6

<400> 2
 Asn Asp Pro Ile Ser Asn Ala Ile Glu Asn Ala Val Ser Thr Leu Ala
 1 5 10 15
 Asp Thr Thr Ile Ser Arg Val Thr Ala Ala Asn Thr Ala Ala Ser Ser
 20 25 30
 His Ser Leu Gly Thr Gly Arg Val Pro Ala Leu Gln Ala Ala Glu Thr
 35 40 45
 Gly Ala Ser Ser Asn Ala Ser Asp Glu Asn Leu Ile Glu Thr Arg Cys
 50 55 60
 Val Met Asn Arg Asn Gly Val Asn Glu Ala Ser Val Glu His Phe Tyr
 65 70 75 80
 Ser Arg Ala Gly Leu Val Gly Val Val Glu Val Lys Asp Ser Gly Thr
 85 90 95
 Ser Gln Asp Gly Tyr Thr Val Trp Pro Ile Asp Val Met Gly Phe Val
 100 105 110
 Gln Gln Arg Arg Lys Leu Glu Leu Ser Thr Tyr Met Arg Phe Asp Ala
 115 120 125
 Glu Phe Thr Phe Val Ser Asn Leu Asn Asp Ser Thr Thr Pro Gly Met
 130 135 140
 Leu Leu Gln Tyr Met Tyr Val Pro Pro Gly Ala Pro Lys Pro Asp Gly
 145 150 155 160
 Arg Lys Ser Tyr Gln Trp Gln Thr Ala Thr Asn Pro Ser Ile Phe Ala
 165 170 175
 Lys Leu Ser Asp Pro Pro Pro Gln Val Ser Val Pro Phe Met Ser Pro
 180 185 190
 Ala Ser Ala Tyr Gln Trp Phe Tyr Asp Gly Tyr Pro Thr Phe Gly Glu
 195 200 205
 His Lys Gln Ala Thr Asn Leu Gln Tyr Gly Gln Cys Pro Asn Asn Met
 210 215 220
 Met Gly His Phe Ala Ile Arg Thr Val Ser Glu Ser Thr Thr Gly Lys
 225 230 235 240
 Asn Val His Val Arg Val Tyr Met Arg Ile Lys His Val Arg Ala Trp
 245 250 255
 Val Pro Arg Pro Phe Arg Ser Gln Ala Tyr Met Val Lys Asn Tyr Pro
 260 265 270
 Thr Tyr Ser Gln Thr Ile Ser Asn Thr Ala Ala Asp Arg Ala Ser Ile
 275 280 285
 Thr Thr Thr Asp Tyr Glu Gly Val Pro Ala Asn Pro Gln Arg Thr
 290 295 300
 Phe
 305

<210> 3
 <211> 256
 <212> PRT
 <213> Coxsackievirus A6

<400> 3
 Ser Pro Ser Val Glu Ala Cys Gly Tyr Ser Asp Arg Val Ala Gln Leu
 1 5 10 15
 Thr Val Gly Asn Ser Thr Ile Thr Thr Gln Glu Ala Ala Asn Ile Val
 20 25 30
 Leu Ser Tyr Gly Glu Trp Pro Gly Tyr Cys Pro Ser Thr Asp Ala Thr
 35 40 45
 Ala Val Asp Lys Pro Thr Arg Pro Asp Val Ser Val Asn Arg Phe Tyr
 50 55 60
 Thr Leu Ser Thr Lys Ser Trp Lys Thr Glu Ser Thr Gly Trp Tyr Trp
 65 70 75 80
 Lys Phe Pro Asp Val Leu Asn Asp Thr Gly Val Phe Gly Gln Asn Ala
 85 90 95
 Gln Phe His Tyr Leu Tyr Arg Ser Gly Phe Cys Met His Val Gln Cys

Asn	Ala	Ser	Lys	Phe	His	Gln	Gly	Ala	Leu	Leu	Val	Val	Val	Ile	Pro
		115					120					125			
Glu	Phe	Val	Val	Ala	Ala	Ser	Ser	Pro	Ala	Met	Lys	Pro	Asn	Gly	Gln
		130				135					140				
Gly	Leu	Tyr	Pro	Asp	Phe	Ala	His	Thr	Asn	Pro	Gly	Lys	Glu	Gly	Gln
					150					155					160
Val	Phe	Arg	Asp	Pro	Tyr	Val	Leu	Asp	Ala	Gly	Ile	Pro	Leu	Ser	Gln
				165					170					175	
Ala	Leu	Val	Phe	Pro	His	Gln	Trp	Ile	Asn	Leu	Arg	Thr	Asn	Asn	Cys
			180					185					190		
Ala	Thr	Ile	Ile	Met	Pro	Tyr	Val	Asn	Ala	Leu	Pro	Phe	Asp	Ser	Ala
		195					200					205			
Leu	Asn	His	Ser	Asn	Phe	Gly	Leu	Ala	Val	Ile	Pro	Ile	Ser	Pro	Leu
		210				215					220				
Lys	Tyr	Cys	Asn	Gly	Ala	Thr	Thr	Glu	Val	Pro	Ile	Thr	Leu	Thr	Ile
					230					235					240
Ala	Pro	Leu	Asn	Ser	Glu	Phe	Ser	Gly	Leu	Arg	Gln	Ala	Ile	Lys	Gln
				245					250					255	

<210> 4
<211> 240
<212> PRT
<213> Cocksackievirus A6

<400>	4														
Gly	Leu	Pro	Thr	Glu	Leu	Lys	Pro	Gly	Thr	Asn	Gln	Phe	Leu	Thr	Thr
1				5					10					15	
Asp	Asp	Gly	Thr	Ser	Pro	Pro	Ile	Leu	Pro	Gly	Phe	Glu	Pro	Thr	Pro
			20					25					30		
Leu	Ile	His	Ile	Pro	Gly	Glu	Phe	Thr	Ser	Leu	Leu	Asp	Leu	Cys	Arg
		35					40					45			
Ile	Glu	Thr	Ile	Leu	Glu	Val	Asn	Asn	Thr	Thr	Gly	Thr	Thr	Gly	Val
	50				55						60				
Asn	Arg	Leu	Leu	Ile	Pro	Val	Arg	Ala	Gln	Asn	Asn	Val	Asp	Gln	Leu
65				70						75				80	
Cys	Ala	Ser	Phe	Gln	Val	Asp	Pro	Gly	Arg	Asn	Gly	Pro	Trp	Gln	Ser
				85					90					95	
Thr	Met	Val	Gly	Gln	Ile	Cys	Arg	Tyr	Tyr	Thr	Gln	Trp	Ser	Gly	Ser
			100					105					110		
Leu	Lys	Val	Thr	Phe	Met	Phe	Thr	Gly	Ser	Phe	Met	Ala	Thr	Gly	Lys
		115					120					125			
Met	Leu	Ile	Ala	Tyr	Thr	Pro	Pro	Gly	Ser	Ala	Gln	Pro	Thr	Thr	Arg
	130					135					140				
Glu	Ala	Ala	Met	Leu	Gly	Thr	His	Ile	Val	Trp	Asp	Phe	Gly	Leu	Gln
145				150					155					160	
Ser	Ser	Val	Thr	Leu	Val	Ile	Pro	Trp	Ile	Ser	Asn	Thr	His	Phe	Arg
				165					170					175	
Ala	Val	Lys	Thr	Gly	Gly	Val	Tyr	Asp	Tyr	Tyr	Ala	Thr	Gly	Ile	Val
			180					185					190		
Thr	Ile	Trp	Tyr	Gln	Thr	Asn	Phe	Val	Val	Pro	Pro	Asp	Thr	Pro	Ser
		195					200					205			
Glu	Ala	Asn	Ile	Ile	Ala	Leu	Gly	Ala	Ala	Gln	Glu	Asn	Phe	Thr	Leu
	210					215				220					
Lys	Leu	Cys	Lys	Asp	Thr	Asp	Glu	Ile	Arg	Gln	Thr	Ala	Glu	Tyr	Gln
225				230					235					240	

<210> 5
<211> 150
<212> PRT
<213> Coxsackievirus A16

<400> 5
Gly Lys Phe Gly Gln Gln Ser Gly Ala Ile Tyr Val Gly Asn Tyr Arg
1 5 10 15
Val Val Asn Arg His Leu Ala Thr His Asn Asp Trp Ala Asn Leu Val

[illegible]

<400>	6														
Ser 1	Pro	Ser	Ala	Glu 5	Ala	Cys	Gly	Tyr	Ser 10	Asp	Arg	Val	Ala	Gln 15	Leu
Thr	Ile	Gly	Asn 20	Ser	Thr	Ile	Thr	Thr 25	Gln	Glu	Ala	Ala	Asn 30	Ile	Val
Ile	Ala	Tyr 35	Gly	Glu	Trp	Pro	Glu 40	Tyr	Cys	Pro	Asp	Thr 45	Asp	Ala	Thr
Ala	Val 50	Asp	Lys	Pro	Thr	Arg 55	Pro	Asp	Val	Ser	Val 60	Asn	Arg	Phe	Phe
Thr 65	Leu	Asp	Thr	Lys	Ser 70	Trp	Ala	Lys	Asp	Ser 75	Lys	Gly	Trp	Tyr	Trp 80
Lys	Phe	Pro	Asp	Val 85	Leu	Thr	Glu	Val	Gly 90	Val	Phe	Gly	Gln	Asn 95	Ala
Gln	Phe	His	Tyr 100	Leu	Tyr	Arg	Ser	Gly 105	Phe	Cys	Val	His	Val 110	Gln	Cys
Asn	Ala	Ser 115	Lys	Phe	His	Gln	Gly 120	Ala	Leu	Leu	Val	Ala 125	Val	Leu	Pro
Glu	Tyr 130	Val	Leu	Gly	Thr	Ile 135	Ala	Gly	Gly	Thr	Gly 140	Asn	Glu	Asn	Ser
His 145	Pro	Pro	Tyr	Ala	Thr 150	Thr	Gln	Pro	Gly	Gln 155	Val	Gly	Ala	Val	Leu 160
Met	His	Pro	Tyr	Val 165	Leu	Asp	Ala	Gly	Ile 170	Pro	Leu	Ser	Gln	Leu 175	Thr
Val	Cys	Pro	His 180	Gln	Trp	Ile	Asn	Leu 185	Arg	Thr	Asn	Asn	Cys 190	Ala	Thr
Ile	Ile	Val 195	Pro	Tyr	Met	Asn	Thr 200	Val	Pro	Phe	Asp	Ser 205	Ala	Leu	Asn
His	Cys 210	Asn	Phe	Gly	Leu	Leu 215	Val	Ile	Pro	Val	Val 220	Pro	Leu	Asp	Phe
Asn 225	Ala	Gly	Ala	Thr	Ser 230	Glu	Ile	Pro	Ile	Thr 235	Val	Thr	Ile	Ala	Pro 240
Met	Cys	Ala	Glu	Phe 245	Ala	Gly	Leu	Arg	Gln 250	Ala	Val	Lys	Gln		

<400> 7
Gly Asp Pro Ile Ala Asp Met Ile Asp Gln Thr Val Asn Asn Gln Val
1 5 10 15
Asn Arg Ser Leu Thr Ala Leu Gln Val Leu Pro Thr Ala Ala Asn Thr
Page 4

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

<400>	8						
ttaaaacagc	tagtgggttg	cacccactca	cagggccac	tgggcgctag	cacactgatt	60	
tcccggaatc	cttgtgcgc	tgttttatat	ccccccccc	atgcgcaact	tagaagcaat	120	
ctacaccttc	gatcaatagc	aggtcgtggc	cgccagccat	gtctagatca	agcactctctg	180	
tttccccgga	ctgagtatca	ataaactgct	cacgcggttg	aaggagaaaa	tgttcgttac	240	
ccggctaact	acttcgagaa	acctagtagc	accatgaaaa	ttgcagagcg	tttcgctcag	300	
cgttccccc	gcgtagatca	ggctgatgag	tcactgcatt	cctcacgggc	gaccgtggca	360	
gtggctgcgt	tggcggcctg	cccatggggt	aacctatggg	acgctctaatt	atgggacatgg	420	
tgtgaagagt	ctattgagct	agtttagtagt	cctccggccc	ctgaatgcgg	ctaatcctaa	480	
ctgcggagca	cataccccc	aaccaggggg	cgggtgtgtcg	taacgggcaa	ctctgcagcg	540	
gaaccgacta	ctttgggtgt	ccgtgtttcc	ttttattctt	atattggctg	cttatgggtga	600	
caattgaaag	attgtttacca	tatagctatt	ggattggcca	tccggtgaat	aacagagcct	660	
tgatatacct	ttttgtaggg	tttataccac	ttactcttcg	cgttgttgag	actctaaagt	720	
acattctaatt	cttgaacact	agaaa				745	

<400> 9						
agcctgtggg	ttgttcccac	ccacagggcc	cagtggg'gc	tagcacactg	attctgcggg	60
atctttgtgc	gcctgtttta	taacccttc	cctaagcagc	aacttagaag	tttcacacaa	120
tcacgaccag	tagtgggcgt	ggcgcgccag	tcacgtcttg	gtcaagcact	tctgttcccc	180
cggactgagt	atcaatagac	tgctcacgcg	gttgaaggag	aaaacgttcg	ttatccggct	240
acactactcg	agaaacctag	tagcaccgtg	aaagtgtcgg	aggtgttcgc	tcagcacttc	300

606772000940SEQLIST

ccccgtgtag	atcagggtcga	tgagtcactg	taaaccacac	gggacgaccgt	gacagtggct	360
gcgttgccgg	cctgcccattg	gggtaaccca	tgggacgctc	taatacacagac	atgggtgtgaa	420
gagtcctattg	agctagttag	tagtcctccg	gcccctgaat	gcggctaatac	ctaactgcgg	480
agcacgcacc	ctcaaccag	ggggcgccgt	gtcgtaattg	gtaactctgc	agcggaaccg	540
actacttttg	gtgtccgtgt	ttccttttat	tccttattgg	ctgcttatgg	tgacaattga	600
aaagtgtgta	ccatatagct	attggattgg	ccatccggtg	tctaacagag	ctattgttta	660
cctatttatt	ggatacgtcc	ctcttaatct	caaggccatt	caaactcttg	attatatatt	720
gctcctaac	tgtaagaaa					739

<210> 10
 <211> 20
 <212> DNA
 <213> unknown

<220>
 <223> synthetic construct

<400> 10		
tccatgacgt	tcctgacgtt	20

<210> 11
 <211> 18
 <212> DNA
 <213> unknown

<220>
 <223> synthetic construct

<400> 11		
tctcccagcg	tgccgcat	18

<210> 12
 <211> 30
 <212> DNA
 <213> unknown

<220>
 <223> synthetic construct

<400> 12		
accgatgacg	tcgccggtga	30

<210> 13
 <211> 24
 <212> DNA
 <213> unknown

<220>
 <223> synthetic construct

<400> 13		
tcgtcgtttt	gtcgttttgt	24

<210> 14
 <211> 20
 <212> DNA
 <213> unknown

<220>
 <223> synthetic construct

<400> 14		
tccatgacgt	tcctgatgct	20

606772000940SEQLIST

<210> 15
 <211> 291
 <212> PRT
 <213> Coxsackievirus A6

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

<210> 16
 <211> 291
 <212> PRT
 <213> Coxsackievirus A6

<400> 16
 Asn Asp Pro Ile Ala Asn Ala Val Glu Gly Ala Val Gly Thr Leu Ala
 1 5 10 15
 Asp Ala Thr Ile Ser Arg Val Thr Ala Ala Asn Thr Ile Ala Ser Thr
 20 25 30
 His Ser Leu Gly Thr Gly Arg Val Pro Ala Leu Gln Ala Ala Glu Thr
 35 40 45
 Gly Ala Ser Ser Asn Ala Ser Asp Glu Asn Leu Ile Glu Thr Arg Cys
 50 55 60
 Val Met Asn Arg Asn Gly Ile Asn Glu Ala Ser Val Glu His Phe Tyr
 65 70 75 80
 Ser Arg Ala Gly Leu Val Gly Val Val Glu Val Lys Asp Ser Gly Thr
 85 90 95
 Ser Gln Asp Gly Tyr Thr Val Trp Pro Ile Asp Val Met Gly Phe Val
 100 105 110
 Gln Gln Arg Arg Lys Leu Glu Leu Ser Thr Tyr Met Arg Phe Asp Ala

[illegible]

<210> 17
<211> 305
<212> PRT
<213> Cocksackievirus A6

Asn 1	Asp 2	Pro 3	Ile 4	Ser 5	Asn 6	Ala 7	Ile 8	Glu 9	Asn 10	Ala 11	Val 12	Ser 13	Thr 14	Leu 15	Ala 16
Asp 17	Thr 18	Thr 19	Ile 20	Ser 21	Arg 22	Val 23	Thr 24	Ala 25	Ala 26	Asn 27	Thr 28	Ala 29	Ala 30	Ser 31	Ser 32
His 33	Ser 34	Leu 35	Gly 36	Thr 37	Gly 38	Arg 39	Val 40	Pro 41	Ala 42	Leu 43	Gln 44	Ala 45	Ala 46	Glu 47	Thr 48
Gly 49	Ala 50	Ser 51	Ser 52	Asn 53	Ala 54	Ser 55	Asp 56	Glu 57	Asn 58	Leu 59	Ile 60	Glu 61	Thr 62	Arg 63	Cys 64
Val 65	Met 66	Asn 67	Arg 68	Asn 69	Gly 70	Val 71	Asn 72	Glu 73	Ala 74	Ser 75	Val 76	Glu 77	His 78	Phe 79	Tyr 80
Ser 81	Arg 82	Ala 83	Gly 84	Leu 85	Val 86	Gly 87	Val 88	Val 89	Glu 90	Val 91	Lys 92	Asp 93	Ser 94	Gly 95	Thr 96
Ser 97	Gln 98	Asp 99	Gly 100	Tyr 101	Thr 102	Val 103	Trp 104	Pro 105	Ile 106	Asp 107	Val 108	Met 109	Gly 110	Phe 111	Val 112
Gln 113	Gln 114	Arg 115	Arg 116	Lys 117	Leu 118	Glu 119	Leu 120	Ser 121	Thr 122	Tyr 123	Met 124	Arg 125	Phe 126	Asp 127	Ala 128
Glu 129	Phe 130	Thr 131	Phe 132	Val 133	Ser 134	Asn 135	Leu 136	Asn 137	Asp 138	Ser 139	Thr 140	Thr 141	Pro 142	Gly 143	Met 144
Leu 145	Leu 146	Gln 147	Tyr 148	Met 149	Tyr 150	Val 151	Pro 152	Pro 153	Gly 154	Ala 155	Pro 156	Lys 157	Pro 158	Asp 159	Gly 160
Arg 161	Lys 162	Ser 163	Tyr 164	Gln 165	Trp 166	Gln 167	Thr 168	Ala 169	Thr 170	Asn 171	Pro 172	Ser 173	Ile 174	Phe 175	Ala 176
Lys 177	Leu 178	Ser 179	Asp 180	Pro 181	Pro 182	Pro 183	Gln 184	Val 185	Ser 186	Val 187	Pro 188	Phe 189	Met 190	Ser 191	Pro 192
Ala 193	Ser 194	Ala 195	Tyr 196	Gln 197	Trp 198	Phe 199	Tyr 200	Asp 201	Gly 202	Tyr 203	Pro 204	Thr 205	Phe 206	Gly 207	Glu 208
His 209	Lys 210	Gln 211	Ala 212	Thr 213	Asn 214	Leu 215	Gln 216	Tyr 217	Gly 218	Gln 219	Cys 220	Pro 221	Asn 222	Asn 223	Met 224
Met 225	Gly 226	His 227	Phe 228	Ala 229	Ile 230	Arg 231	Thr 232	Val 233	Ser 234	Glu 235	Ser 236	Thr 237	Thr 238	Gly 239	Lys 240
Asn 241	Val 242	His 243	Val 244	Arg 245	Val 246	Tyr 247	Met 248	Arg 249	Ile 250	Lys 251	His 252	Val 253	Arg 254	Ala 255	Trp 256
Val 257	Pro 258	Arg 259	Pro 260	Phe 261	Arg 262	Ser 263	Gln 264	Ala 265	Tyr 266	Met 267	Val 268	Lys 269	Asn 270	Tyr 271	Pro 272
Thr 273	Tyr 274	Ser 275	Gln 276	Thr 277	Ile 278	Ser 279	Asn 280	Thr 281	Ala 282	Ala 283	Asp 284	Arg 285	Ala 286	Ser 287	Ile 288
Thr 289	Thr 290	Thr 291	Asp 292	Tyr 293	Glu 294	Gly 295	Gly 296	Val 297	Pro 298	Ala 299	Asn 300	Pro 301	Gln 302	Arg 303	Thr 304

606772000940SEQLIST

290
Phe
305

295

300

<210> 18
<211> 305
<212> PRT
<213> Coxsackievirus A6

<400> 18

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

<210> 19
<211> 305
<212> PRT
<213> Coxsackievirus A6

<400> 19

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

606772000940SEQLIST

65	Ser	Arg	Ala	Gly	Leu	Val	Gly	Val	Val	Lys	Val	Lys	Asp	Ser	Gly	80	Ala
					85					90					95		
	Ser	Gln	Asp	Gly	Tyr	Thr	Val	Trp	Pro	Ile	Asp	Val	Met	Gly	Phe	Val	
				100					105					110			
	Gln	Gln	Arg	Arg	Lys	Leu	Glu	Leu	Ser	Thr	Tyr	Met	Arg	Phe	Asp	Ala	
			115					120					125				
	Glu	Phe	Thr	Phe	Val	Ser	Asn	Leu	Asn	Asp	Ser	Thr	Thr	Pro	Gly	Met	
		130					135					140					
	Leu	Leu	Gln	Tyr	Met	Tyr	Val	Pro	Pro	Gly	Ala	Pro	Lys	Pro	Asp	Gly	
145						150					155					160	
	Arg	Lys	Ser	Tyr	Gln	Trp	Gln	Thr	Ala	Thr	Asn	Pro	Ser	Ile	Phe	Ala	
					165					170					175		
	Lys	Leu	Ser	Asp	Pro	Pro	Pro	Gln	Val	Ser	Val	Pro	Phe	Met	Ser	Pro	
			180						185					190			
	Ala	Ser	Ala	Tyr	Gln	Trp	Phe	Tyr	Asp	Gly	Tyr	Pro	Thr	Phe	Gly	Glu	
			195					200					205				
	His	Lys	Gln	Ala	Thr	Asn	Leu	Gln	Tyr	Gly	Gln	Cys	Pro	Asn	Asn	Met	
		210					215					220					
	Met	Gly	His	Phe	Ala	Ile	Arg	Thr	Val	Ser	Glu	Ser	Thr	Thr	Gly	Lys	
225						230					235					240	
	Asn	Val	His	Val	Arg	Val	Tyr	Met	Arg	Ile	Lys	His	Val	Arg	Ala	Trp	
					245					250					255		
	Val	Pro	Arg	Pro	Phe	Arg	Ser	Gln	Ala	Tyr	Met	Ile	Lys	Asn	Tyr	Pro	
			260						265					270			
	Thr	Tyr	Ser	Gln	Thr	Ile	Ser	Asn	Thr	Ala	Ala	Asp	Arg	Ala	Ser	Ile	
			275					280					285				
	Thr	Thr	Thr	Asp	Tyr	Glu	Gly	Gly	Val	Pro	Ala	Asn	Pro	Gln	Arg	Thr	
		290					295					300					
	Phe																
	305																

<210> 20
 <211> 305
 <212> PRT
 <213> Coxsackievirus A6

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

606772000940SEQLIST

225 230 235 240
 Asn Val His Val Arg Val Tyr Met Arg Ile Lys His Val Arg Ala Trp
 245 250 255
 Val Pro Arg Pro Leu Arg Ser Gln Ala Tyr Met Val Lys Asn Tyr Pro
 260 265 270
 Thr Tyr Ser Gln Thr Ile Thr Asn Thr Ala Thr Asp Arg Ala Ser Ile
 275 280 285
 Thr Thr Thr Asp Tyr Glu Gly Gly Val Pro Ala Asn Ser Gln Arg Thr
 290 295 300
 Ser
 305

<210> 21
 <211> 291
 <212> PRT
 <213> Coxsackievirus A6

<400> 21
 Asn Asp Pro Ile Thr Asn Ala Val Glu Ser Ala Val Ser Ala Leu Ala
 1 5 10 15
 Asp Thr Thr Ile Ser Arg Val Thr Ala Ala Asn Thr Ala Val Ser Thr
 20 25 30
 His Ser Leu Gly Thr Gly Arg Val Pro Ala Leu Gln Ala Ala Glu Thr
 35 40 45
 Gly Ala Ser Ser Asn Ala Ser Asp Glu Asn Leu Ile Glu Thr Arg Cys
 50 55 60
 Val Met Asn Arg Asn Gly Val Asn Glu Ala Ser Val Glu His Phe Tyr
 65 70 75 80
 Ser Arg Ala Gly Leu Val Gly Val Val Glu Val Lys Asp Ser Gly Thr
 85 90 95
 Ser Leu Asp Gly Tyr Thr Val Trp Pro Ile Asp Val Met Gly Phe Val
 100 105 110
 Gln Gln Arg Arg Lys Leu Glu Leu Ser Thr Tyr Met Arg Phe Asp Ala
 115 120 125
 Glu Phe Thr Phe Val Ser Asn Leu Asn Asp Ser Thr Thr Pro Gly Met
 130 135 140
 Leu Leu Gln Tyr Met Tyr Val Pro Pro Gly Ala Pro Lys Pro Asp Ser
 145 150 155 160
 Arg Lys Ser Tyr Gln Trp Gln Thr Ala Thr Asn Pro Ser Val Phe Ala
 165 170 175
 Lys Leu Ser Asp Pro Pro Pro Gln Val Ser Val Pro Phe Met Ser Pro
 180 185 190
 Ala Thr Ala Tyr Gln Trp Phe Tyr Asp Gly Tyr Pro Thr Phe Gly Glu
 195 200 205
 His Lys Gln Ala Thr Asn Leu Gln Tyr Gly Gln Cys Pro Asn Asn Met
 210 215 220
 Met Gly His Phe Ala Ile Arg Thr Val Ser Glu Ser Thr Thr Gly Lys
 225 230 235 240
 Asn Val His Val Arg Val Tyr Met Arg Ile Lys His Val Arg Ala Trp
 245 250 255
 Val Pro Arg Pro Leu Arg Ser Gln Ala Tyr Met Val Lys Asn Tyr Pro
 260 265 270
 Thr Tyr Ser Gln Thr Ile Thr Asn Thr Ala Thr Asp Arg Ala Ser Ile
 275 280 285
 Thr Ile Thr
 290

<210> 22
 <211> 305
 <212> PRT
 <213> Coxsackievirus A6

<400> 22
 Asn Asp Pro Ile Thr Asn Ala Val Glu Ser Ala Val Ser Ala Leu Ala
 1 5 10 15
 Asp Thr Thr Ile Ser Arg Val Thr Ala Ala Asn Thr Ala Ala Ser Thr

[illegible]

```
<210> 23
<211> 305
<212> PRT
<213> Cocksackievirus A6
```

<400>	23														
Asn 1	Asp	Pro	Ile	Thr 5	Asn	Ala	Val	Glu	Ser 10	Ala	Val	Ser	Ala	Leu 15	Ala
Asp	Thr	Thr	Ile 20	Ser	Arg	Val	Thr	Ala 25	Ala	Asn	Thr	Ala	Ala 30	Ser	Thr
His	Ser	Leu 35	Gly	Thr	Gly	Arg	Val 40	Pro	Ala	Leu	Gln	Ala 45	Ala	Glu	Thr
Gly	Ala 50	Ser	Ser	Asn	Ala	Ser 55	Asp	Glu	Asn	Leu	Ile 60	Glu	Thr	Arg	Cys
Val 65	Met	Asn	Arg	Asn	Gly 70	Val	Asn	Glu	Ala	Ser 75	Val	Glu	His	Phe	Tyr 80
Ser	Arg	Ala	Gly	Leu 85	Val	Gly	Val	Val	Glu 90	Val	Lys	Asp	Ser	Gly 95	Thr
Ser	Leu	Asp	Gly 100	Tyr	Thr	Val	Trp	Pro 105	Ile	Asp	Val	Met	Gly 110	Phe	Val
Gln	Gln	Arg 115	Arg	Lys	Leu	Glu	Leu 120	Ser	Thr	Tyr	Met	Arg 125	Phe	Asp	Ala
Glu	Phe 130	Thr	Phe	Val	Ser	Asn 135	Leu	Asn	Asn	Ser	Thr 140	Thr	Pro	Gly	Met
Leu 145	Leu	Gln	Tyr	Met	Tyr 150	Val	Pro	Pro	Gly	Ala 155	Pro	Lys	Pro	Asp	Ser 160
Arg	Lys	Ser	Tyr	Gln 165	Trp	Gln	Thr	Ala	Thr 170	Asn	Pro	Ser	Val	Phe 175	Ala
Lys	Leu	Ser	Asp	Pro	Pro	Pro	Gln	Val	Ser	Val	Pro	Phe	Met	Ser	Pro

[illegible]

```
<210> 24
<211> 305
<212> PRT
<213> Cocksackievirus A6
```

[illegible]

<210> 25

606772000940SEQLIST

<211> 262

<212> PRT

<213> Cocksackievirus A16

<400> 25

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

<210> 26

<211> 297

<212> PRT

<213> Cocksackievirus A16

<400> 26

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

606772000940SEQLIST

				165					170					175			
Pro	Ser	Val	Phe	Val	Lys	Met	Thr	Asp	Pro	Pro	Ala	Gln	Val	Ser	Val		
			180					185					190				
Pro	Phe	Met	Ser	Pro	Ala	Ser	Ala	Tyr	Gln	Trp	Phe	Tyr	Asp	Gly	Tyr		
		195					200					205					
Pro	Thr	Phe	Gly	Glu	His	Leu	Gln	Ala	Asn	Asp	Leu	Asp	Tyr	Gly	Gln		
	210					215					220						
Cys	Pro	Asn	Asn	Met	Met	Gly	Thr	Phe	Ser	Val	Arg	Thr	Val	Gly	Ala		
225					230					235					240		
Glu	Lys	Ser	Pro	His	Ser	Ile	Thr	Leu	Arg	Val	Tyr	Met	Arg	Ile	Lys		
				245					250					255			
His	Val	Arg	Ala	Trp	Ile	Pro	Arg	Pro	Leu	Arg	Asn	Gln	Pro	Tyr	Leu		
			260					265					270				
Phe	Lys	Thr	Asn	Pro	Asn	Tyr	Lys	Gly	Asn	Asp	Ile	Lys	Cys	Thr	Ser		
		275					280					285					
Thr	Ser	Arg	Asp	Lys	Ile	Thr	Thr	Leu									
	290					295											

<210> 27

<211> 297

<212> PRT

<213> Coxsackievirus A16

<400> 27

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

<210> 28

<211> 297

<212> PRT

606772000940SEQLIST

<213> Cocksackievirus A16

<400> 28

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

<210> 29

<211> 277

<212> PRT

<213> Cocksackievirus A16

<400> 29

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

606772000940SEQLIST

145	Pro	Lys	Pro	Thr	Ser	Arg	Asp	Ser	Phe	Ala	Trp	Gln	Thr	Ala	Thr	Asn	160
					165					170					175		
	Pro	Ser	Val	Phe	Val	Lys	Met	Thr	Asp	Pro	Pro	Ala	Gln	Val	Ser	Val	
				180					185					190			
	Pro	Phe	Met	Ser	Pro	Ala	Ser	Ala	Tyr	Gln	Trp	Phe	Tyr	Asp	Gly	Tyr	
			195					200					205				
	Pro	Thr	Phe	Gly	Glu	His	Leu	Gln	Ala	Asp	Asp	Leu	Asp	Tyr	Gly	Gln	
			210				215					220					
	Cys	Pro	Asn	Asn	Met	Met	Gly	Thr	Phe	Ser	Ile	Arg	Thr	Val	Gly	Thr	
	225					230					235					240	
	Glu	Lys	Ser	Pro	His	Ser	Ile	Thr	Leu	Arg	Val	Tyr	Met	Arg	Ile	Lys	
					245					250					255		
	His	Val	Arg	Ala	Trp	Ile	Pro	Arg	Pro	Leu	Arg	Asn	Gln	Pro	Tyr	Leu	
				260					265					270			
	Phe	Lys	Thr	Asn	Pro												
				275													

<210> 30
 <211> 283
 <212> PRT
 <213> Coxsackievirus A16

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

<210> 31
 <211> 297
 <212> PRT
 <213> Coxsackievirus A16

606772000940SEQLIST

<400> 31

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

<210> 32

<211> 297

<212> PRT

<213> Cocksackievirus A16

<400> 32

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

606772000940SEQLIST

				165				170					175				
Pro	Ser	Val	Phe	Val	Lys	Met	Thr	Asp	Pro	Pro	Ala	Gln	Val	Ser	Val		
			180					185					190				
Pro	Phe	Met	Ser	Pro	Ala	Ser	Ala	Tyr	Gln	Trp	Phe	Tyr	Asp	Gly	Tyr		
		195					200					205					
Pro	Thr	Phe	Gly	Glu	His	Leu	Gln	Ala	Asn	Asp	Leu	Asp	Tyr	Gly	Gln		
	210					215					220						
Cys	Pro	Asn	Asn	Met	Met	Gly	Thr	Phe	Ser	Ile	Arg	Thr	Val	Gly	Thr		
225					230					235					240		
Glu	Lys	Ser	Pro	His	Ser	Ile	Thr	Leu	Arg	Val	Tyr	Met	Arg	Ile	Lys		
				245					250					255			
His	Val	Arg	Ala	Trp	Ile	Pro	Arg	Pro	Leu	Arg	Asn	Gln	Pro	Tyr	Leu		
			260					265					270				
Phe	Lys	Thr	Asn	Pro	Asn	Tyr	Lys	Gly	Asn	Asp	Ile	Lys	Cys	Thr	Ser		
		275					280					285					
Thr	Ser	Arg	Asp	Lys	Ile	Thr	Thr	Leu									
	290					295											

<210> 33
 <211> 297
 <212> PRT
 <213> Coxsackievirus A16

<400> 33

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

<210> 34
 <211> 297
 <212> PRT

606772000940SEQLIST

<213> Cocksackievirus A16

<400> 34

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

<210> 35

<211> 297

<212> PRT

<213> Cocksackievirus A16

<400> 35

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

606772000940SEQLIST

145	Pro	Lys	Pro	Thr	Ser	150	Arg	Asp	Ser	Phe	Ala	155	Trp	Gln	Thr	Ala	160	Thr	Asn
					165						170						175		
	Pro	Ser	Val	Phe	Val	Lys	Met	Thr	Asp	Pro	Pro	Ala	Gln	Val	Ser	Val			
				180					185							190			
	Pro	Phe	Met	Ser	Pro	Ala	Ser	Ala	Tyr	Gln	Trp	Phe	Tyr	Asp	Gly	Tyr			
			195					200						205					
	Pro	Thr	Phe	Gly	Glu	His	Leu	Gln	Ala	Asn	Asp	Leu	Asp	Tyr	Gly	Gln			
			210				215						220						
	Cys	Pro	Asn	Asn	Met	Met	Gly	Thr	Phe	Ser	Ile	Arg	Thr	Val	Gly	Thr			
	225					230					235					240			
	Glu	Lys	Ser	Pro	His	Ser	Ile	Thr	Leu	Arg	Val	Tyr	Met	Arg	Ile	Lys			
					245					250					255				
	His	Val	Arg	Ala	Trp	Ile	Pro	Arg	Pro	Leu	Arg	Asn	Gln	Pro	Tyr	Leu			
				260					265					270					
	Phe	Lys	Thr	Asn	Pro	Asn	Tyr	Lys	Gly	Asn	Asp	Ile	Lys	Cys	Thr	Ser			
			275					280					285						
	Thr	Ser	Arg	Asp	Lys	Ile	Thr	Thr	Leu										
		290					295												

<210> 36

<211> 297

<212> PRT

<213> Cocksackievirus A16

<400> 36

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

<210> 37

606772000940SEQLIST

<211> 297

<212> PRT

<213> Coxsackievirus A16

<400> 37

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

<210> 38

<211> 297

<212> PRT

<213> Coxsackievirus A16

<400> 38

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

606772000940SEQLIST

130	Glu	Val	Pro	Gln	Leu	135	Leu	Gln	Tyr	Met	140	Tyr	Val	Pro	Pro	Gly	Ala
145	Pro	Lys	Pro	Thr	Ser	150	Arg	Asp	Ser	Phe	155	Ala	Trp	Gln	Thr	Ala	Thr
					165	Lys	Met	Thr	Asp	170	Pro	Pro	Ala	Gln	Val	Ser	Val
					180	Pro	Ala	Ser	Ala	185	Gln	Trp	Phe	Tyr	205	Asp	Gly
					195	Pro	Thr	Phe	Gly	200	Gln	Ala	Asn	Asp	Leu	220	Thr
					210	Cys	Pro	Asn	Asn	Met	215	Gly	Thr	Phe	Ser	Ile	Arg
					225	Glu	Lys	Ser	Pro	His	230	Ser	Ile	Thr	Leu	235	Arg
					245	His	Val	Arg	Ala	Trp	Ile	Pro	Arg	Pro	Leu	250	Arg
					260	Phe	Lys	Thr	Asn	Pro	Asn	Tyr	Lys	Gly	Asn	Asp	Ile
					275	Thr	Ser	Arg	Asp	Lys	Ile	Thr	280	Leu			
					290												

<210> 39

<211> 297

<212> PRT

<213> Cocksackievirus A16

<400> 39

1	Gly	Asp	Pro	Ile	Ala	5	Asp	Met	Ile	Asp	10	Gln	Thr	Val	Asn	Asn	Gln
	Asn	Arg	Ser	Leu	20	Thr	Ala	Leu	Gln	Val	25	Leu	Pro	Thr	Ala	Ala	15
	Glu	Ala	Ser	Ser	His	Arg	Leu	Gly	Thr	Gly	40	Val	Val	Pro	Ala	Leu	30
	Ala	Ala	Glu	Thr	Gly	Ala	Ser	Asn	Ala	Ser	55	Asp	Lys	Asn	Leu	Ile	45
	Glu	Thr	Arg	Cys	Val	Leu	70	Asn	His	His	60	Ser	Thr	Gln	Glu	Thr	Ala
	65	Gly	Asn	Phe	Phe	Ser	85	Arg	Ala	Gly	Leu	90	Val	Ser	Ile	Ile	80
	Thr	Thr	Gly	Thr	Gln	Asn	Thr	Asp	Gly	Tyr	105	Val	Asn	Trp	Asp	Ile	95
	Leu	Met	Gly	Tyr	Ala	Gln	Leu	Arg	Lys	Cys	120	Glu	Leu	Phe	Thr	Tyr	110
	Met	Arg	Phe	Asp	Ala	Glu	Phe	Thr	Phe	Val	135	Val	Val	Ala	Lys	Pro	Asn
	130	Glu	Leu	Val	Pro	Gln	Leu	Gln	Tyr	Met	140	Tyr	Val	Pro	Pro	Gly	Ala
	145	Pro	Lys	Pro	Thr	Ser	Arg	Asp	Ser	Phe	155	Ala	Trp	Gln	Thr	Ala	Thr
						165	Lys	Met	Thr	Asp	170	Pro	Pro	Ala	Gln	Val	Ser
						180	Pro	Ala	Ser	Ala	185	Gln	Trp	Phe	Tyr	205	Asp
						195	Pro	Thr	Phe	Gly	200	Gln	Ala	Asn	Asp	Leu	220
						210	Cys	Pro	Asn	Asn	Met	215	Gly	Thr	Phe	Ser	Ile
						225	Glu	Lys	Ser	Pro	His	230	Ser	Ile	Thr	Leu	235
						245	His	Val	Arg	Ala	Trp	Ile	Pro	Arg	Pro	Leu	250
						260	Phe	Lys	Thr	Asn	Pro	Asn	Tyr	Lys	Gly	Asn	Asp
						275	Thr	Ser	Arg	Asp	Lys	Ile	Thr	280	Leu		
						290											

606772000940SEQLIST

<210> 40
 <211> 297
 <212> PRT
 <213> Coxsackievirus A16

<400> 40

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

<210> 41
 <211> 297
 <212> PRT
 <213> Coxsackievirus A16

<400> 41

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

606772000940SEQLIST

```

      115      120      125
Met Arg Phe Asp Ala Glu Phe Thr Phe Val Val Ala Lys Pro Asn Gly
    130      135      140
Glu Leu Val Pro Gln Leu Leu Gln Tyr Met Tyr Val Pro Pro Gly Ala
145      150      155      160
Pro Lys Pro Thr Ser Arg Asp Ser Phe Ala Trp Gln Thr Ala Thr Asn
    165      170      175
Pro Ser Val Phe Val Lys Met Thr Asp Pro Pro Ala Gln Val Ser Val
    180      185      190
Pro Phe Met Ser Pro Ala Ser Ala Tyr Gln Trp Phe Tyr Asp Gly Tyr
    195      200      205
Pro Thr Phe Gly Glu His Leu Gln Ala Asn Asp Leu Asp Tyr Gly Gln
    210      215      220
Cys Pro Asn Asn Met Met Gly Thr Phe Ser Ile Arg Thr Val Gly Thr
225      230      235      240
Glu Lys Ser Pro His Ser Ile Thr Leu Arg Val Tyr Met Arg Ile Lys
    245      250      255      260
His Val Arg Ala Trp Ile Pro Arg Pro Leu Arg Asn Gln Pro Tyr Leu
    265      270      275
Phe Lys Thr Asn Pro Asn Tyr Lys Gly Asn Asp Ile Lys Cys Thr Ser
    280      285      290
Thr Ser Arg Asp Lys Ile Thr Thr Leu
    295

```

<210> 42

<211> 297

<212> PRT

<213> Coxsackievirus A16

<400> 42

```

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

```

290

295

<210> 43
 <211> 297
 <212> PRT
 <213> Cocksackievirus A16

<400> 43

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

<210> 44
 <211> 297
 <212> PRT
 <213> Cocksackievirus A16

<400> 44

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

606772000940SEQLIST

			100					105				110			
Leu	Met	Gly	Tyr	Ala	Gln	Leu	Arg	Arg	Lys	Cys	Glu	Leu	Phe	Thr	Tyr
		115					120					125			
Met	Arg	Phe	Asp	Ala	Glu	Phe	Thr	Phe	Val	Val	Ala	Lys	Pro	Asn	Gly
	130					135					140				
Glu	Leu	Val	Pro	Gln	Leu	Leu	Gln	Tyr	Met	Tyr	Val	Pro	Pro	Gly	Ala
145					150					155					160
Pro	Lys	Pro	Thr	Ser	Arg	Asp	Ser	Phe	Ala	Trp	Gln	Thr	Ala	Thr	Asn
				165					170					175	
Pro	Ser	Val	Phe	Val	Lys	Met	Thr	Asp	Pro	Pro	Ala	Gln	Val	Ser	Val
			180					185					190		
Pro	Phe	Met	Ser	Pro	Ala	Ser	Ala	Tyr	Gln	Trp	Phe	Tyr	Asp	Gly	Tyr
	195						200					205			
Pro	Thr	Phe	Gly	Glu	His	Leu	Gln	Ala	Asn	Asp	Leu	Asp	Tyr	Gly	Gln
	210					215					220				
Cys	Pro	Asn	Asn	Met	Met	Gly	Thr	Phe	Ser	Ile	Arg	Thr	Val	Gly	Thr
225					230					235					240
Glu	Lys	Ser	Pro	His	Ser	Ile	Thr	Leu	Arg	Val	Tyr	Met	Arg	Ile	Lys
				245					250					255	
His	Val	Arg	Ala	Trp	Ile	Pro	Arg	Pro	Leu	Arg	Asn	Gln	Pro	Tyr	Leu
			260					265					270		
Phe	Lys	Thr	Asn	Pro	Asn	Tyr	Lys	Gly	Asn	Asp	Ile	Lys	Cys	Thr	Ser
		275					280					285			
Thr	Ser	Arg	Asp	Lys	Ile	Thr	Thr	Leu							
	290					295									