

## SEQUENCE LISTING

<110> PROYECTO DE BIOMEDICINA CIMA  
 THE UAB RESEARCH FOUNDATION  
 <120> AN ADAPTER MOLECULE FOR THE DELIVERY OF ADENOVIRUS VECTORS  
 <130> P4862PC00  
 <150> US61055332  
 <151> 2008-05-22  
 <160> 46  
 <170> PatentIn version 3.5  
 <210> 1  
 <211> 365  
 <212> PRT  
 <213> Homo sapiens  
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Met Ala Leu Leu Leu Cys Phe Val Leu Leu Cys Gly Val Val Asp Phe  
 1 5 10 15

Ala Arg Ser Leu Ser Ile Thr Thr Pro Glu Glu Met Ile Glu Lys Ala  
 20 25 30

Lys Gly Glu Thr Ala Tyr Leu Pro Cys Lys Phe Thr Leu Ser Pro Glu  
 35 40 45

Asp Gln Gly Pro Leu Asp Ile Glu Trp Leu Ile Ser Pro Ala Asp Asn  
 50 55 60

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

Asp Asp Tyr Tyr Pro Asp Leu Lys Gly Arg Val His Phe Thr Ser Asn  
 85 90 95

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

Ser Asp Ile Gly Thr Tyr Gln Cys Lys Val Lys Lys Ala Pro Gly Val  
 115 120 125

Ala Asn Lys Lys Ile His Leu Val Val Leu Val Lys Pro Ser Gly Ala  
 130 135 140

Arg Cys Tyr Val Asp Gly Ser Glu Glu Ile Gly Ser Asp Phe Lys Ile  
 145 150 155 160

Lys Cys Glu Pro Lys Glu Gly Ser Leu Pro Leu Gln Tyr Glu Trp Gln  
 165 170 175

Lys Leu Ser Asp Ser Gln Lys Met Pro Thr Ser Trp Leu Ala Glu Met  
 180 185 190

Thr Ser Ser Val Ile Ser Val Lys Asn Ala Ser Ser Glu Tyr Ser Gly  
 195 200 205

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

Leu Arg Leu Asn Val Val Pro Pro Ser Asn Lys Ala Gly Leu Ile Ala  
 225 230 235 240

Gly Ala Ile Ile Gly Thr Leu Leu Ala Leu Ala Leu Ile Gly Leu Ile  
 245 250 255

Ile Phe Cys Cys Arg Lys Lys Arg Arg Glu Glu Lys Tyr Glu Lys Glu  
 260 265 270

Val His His Asp Ile Arg Glu Asp Val Pro Pro Pro Lys Ser Arg Thr  
 275 280 285

Ser Thr Ala Arg Ser Tyr Ile Gly Ser Asn His Ser Ser Leu Gly Ser  
 290 295 300

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

Val Pro Ser Glu Asp Phe Glu Arg Thr Pro Gln Ser Pro Thr Leu Pro  
 325 330 335

Pro Ala Lys Val Ala Ala Pro Asn Leu Ser Arg Met Gly Ala Ile Pro  
 340 345 350

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Val Met Ile Pro Ala Gln Ser Lys Asp Gly Ser Ile Val
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<210> 2
<211> 365
<212> PRT
<213> Rattus norvegicus
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Met Ala Leu Leu Leu Cys Phe Val Leu Leu Cys Gly Val Ala Asp Phe  
1 5 10 15

Thr Ser Ser Leu Ser Ile Thr Thr Pro Glu Gln Arg Ile Glu Lys Ala  
20 25 30

Lys Gly Glu Thr Ala Tyr Leu Pro Cys Lys Phe Thr Leu Glu Pro Glu  
35 40 45

Asp Gln Gly Pro Leu Asp Ile Glu Trp Leu Ile Ser Pro Ser Asp Asn  
50 55 60

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

Asp Asn Tyr Tyr Pro Asp Leu Lys Gly Arg Val His Phe Thr Ser Asn  
85 90 95

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

Ser Asp Ile Gly Thr Tyr Gln Cys Lys Val Lys Lys Ala Pro Gly Val  
115 120 125

Ala Asn Arg Lys Phe Leu Leu Thr Val Leu Val Lys Pro Ser Gly Thr  
130 135 140

Arg Cys Phe Val Asp Gly Ser Gly Glu Ile Gly Asn Asp Phe Lys Leu  
145 150 155 160

Lys Cys Glu Pro Lys Glu Gly Ser Leu Pro Leu Gln Tyr Glu Trp Gln  
165 170 175

Lys Leu Ser Asp Ser Gln Lys Met Pro Thr Pro Trp Leu Ala Glu Met  
                   180                  185                  190

Thr Ser Pro Val Ile Ser Val Lys Asn Ala Ser Ser Glu Tyr Ser Gly  
           195                  200                  205

Thr Tyr Ser Cys Thr Val Gln Asn Arg Val Gly Ser Asp Gln Cys Met  
       210                  215                  220

Leu Arg Leu Asp Val Val Pro Pro Ser Asn Arg Ala Gly Thr Ile Ala  
   225                  230                  235                  240

Gly Ala Val Ile Gly Thr Leu Leu Ala Leu Val Leu Ile Gly Ala Ile  
                   245                  250                  255

Leu Phe Cys Cys His Lys Lys Arg Arg Glu Glu Lys Tyr Glu Lys Glu  
           260                  265                  270

Val His His Asp Ile Arg Glu Asp Val Pro Pro Pro Lys Ser Arg Thr  
           275                  280                  285

Ser Thr Ala Arg Ser Tyr Ile Gly Ser Asn His Ser Ser Leu Gly Ser  
       290                  295                  300

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

Val Pro Ser Glu Asp Phe Glu Arg Ala Pro Gln Ser Pro Thr Leu Ala  
                   325                  330                  335

Pro Ala Lys Val Ala Ala Pro Asn Leu Ser Arg Met Gly Ala Val Pro  
           340                  345                  350

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

<210> 3

<211> 365

<212> PRT

<213> Mus musculus

<400> 3

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

## 6

Leu Arg Leu Asp Val Val Pro Pro Ser Asn Arg Ala Gly Thr Ile Ala  
225 230 235 240

Gly Ala Val Ile Gly Thr Leu Leu Ala Leu Val Leu Ile Gly Ala Ile  
245 250 255

Leu Phe Cys Cys His Arg Lys Arg Arg Glu Glu Lys Tyr Glu Lys Glu  
260 265 270

Val His His Asp Ile Arg Glu Asp Val Pro Pro Pro Lys Ser Arg Thr  
275 280 285

Ser Thr Ala Arg Ser Tyr Ile Gly Ser Asn His Ser Ser Leu Gly Ser  
290 295 300

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

Val Pro Ser Glu Asp Phe Glu Arg Ala Pro Gln Ser Pro Thr Leu Ala  
325 330 335

Pro Ala Lys Val Ala Ala Pro Asn Leu Ser Arg Met Gly Ala Val Pro  
340 345 350

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

<210> 4  
<211> 26  
<212> PRT  
<213> T4 phage

<400> 4

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

Asp Gly Glu Trp Val Leu Leu Ser Thr Phe  
20 25

<210> 5  
<211> 36  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 5

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

Val Gln His Leu Gln Ala Ala Phe Ser Gln Tyr Lys Lys Val Glu Leu  
 20 25 30

Phe Pro Asn Gly  
 35

&lt;210&gt; 6

&lt;211&gt; 261

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6

Met Ile Glu Thr Tyr Asn Gln Thr Ser Pro Arg Ser Ala Ala Thr Gly  
 1 5 10 15

Leu Pro Ile Ser Met Lys Ile Phe Met Tyr Leu Leu Thr Val Phe Leu  
 20 25 30

Ile Thr Gln Met Ile Gly Ser Ala Leu Phe Ala Val Tyr Leu His Arg  
 35 40 45

Arg Leu Asp Lys Ile Glu Asp Glu Arg Asn Leu His Glu Asp Phe Val  
 50 55 60

Phe Met Lys Thr Ile Gln Arg Cys Asn Thr Gly Glu Arg Ser Leu Ser  
 65 70 75 80

Leu Leu Asn Cys Glu Glu Ile Lys Ser Gln Phe Glu Gly Phe Val Lys  
 85 90 95

Asp Ile Met Leu Asn Lys Glu Glu Thr Lys Lys Glu Asn Ser Phe Glu  
 100 105 110

Met Gln Lys Gly Asp Gln Asn Pro Gln Ile Ala Ala His Val Ile Ser  
 115 120 125

Glu Ala Ser Ser Lys Thr Thr Ser Val Leu Gln Trp Ala Glu Lys Gly  
 130 135 140

Tyr Tyr Thr Met Ser Asn Asn Leu Val Thr Leu Glu Asn Gly Lys Gln  
 145 150 155 160

Leu Thr Val Lys Arg Gln Gly Leu Tyr Tyr Ile Tyr Ala Gln Val Thr  
 165 170 175

Phe Cys Ser Asn Arg Glu Ala Ser Ser Gln Ala Pro Phe Ile Ala Ser  
 180 185 190

Leu Cys Leu Lys Ser Pro Gly Arg Phe Glu Arg Ile Leu Leu Arg Ala  
 195 200 205

Ala Asn Thr His Ser Ser Ala Lys Pro Cys Gly Gln Gln Ser Ile His  
 210 215 220

Leu Gly Gly Val Phe Glu Leu Gln Pro Gly Ala Ser Val Phe Val Asn  
 225 230 235 240

Val Thr Asp Pro Ser Gln Val Ser His Gly Thr Gly Phe Thr Ser Phe  
 245 250 255

Gly Leu Leu Lys Leu  
 260

<210> 7  
 <211> 14  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Linker

<400> 7

Ser Gly Gly Thr Ser Gly Ser Thr Ser Gly Thr Gly Ser Thr  
 1 5 10

<210> 8  
 <211> 15  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Linker

<400> 8



Ala Gly Ser Ser Thr Gly Ser Ser Thr Gly Pro Gly Ser Thr Thr  
 1 5 10 15

<210> 9  
 <211> 7  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Linker

<400> 9

Gly Gly Ser Gly Gly Ala Pro  
 1 5

<210> 10  
 <211> 8  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Linker

<400> 10

Gly Gly Gly Val Glu Gly Gly Gly  
 1 5

<210> 11  
 <211> 5  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Linker

<400> 11

Gly Gly Pro Gly Ser  
 1 5

<210> 12  
 <211> 635  
 <212> PRT  
 <213> Hepatitis C virus

<400> 12

Ala Pro Ile Thr Ala Tyr Ser Gln Gln Thr Arg Gly Leu Leu Gly Cys  
 1 5 10 15

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

Tyr Met Ser Lys Ala His Gly Ile Glu Pro Asn Ile Arg Thr Gly Val  
                                   245                                  250                                  255

Arg Thr Ile Thr Thr Gly Gly Pro Ile Thr Tyr Ser Thr Tyr Cys Lys  
                                   260                                  265                                  270

Phe Leu Ala Asp Gly Gly Cys Ser Gly Gly Ala Tyr Asp Ile Ile Ile  
                                   275                                  280                                  285

Cys Asp Glu Cys His Ser Thr Asp Ser Thr Thr Ile Leu Gly Ile Gly  
                                   290                                  295                                  300

Thr Val Leu Asp Gln Ala Glu Thr Ala Gly Ala Arg Leu Val Val Leu  
                                   305                                  310                                  315                                  320

Ala Thr Ala Thr Pro Pro Gly Ser Ile Thr Val Pro His Pro Asn Ile  
                                   325                                  330                                  335

Glu Glu Val Ala Leu Ser Asn Thr Gly Glu Ile Pro Phe Tyr Gly Lys  
                                   340                                  345                                  350

Ala Ile Pro Ile Glu Ala Ile Lys Gly Gly Arg His Leu Ile Phe Cys  
                                   355                                  360                                  365

His Ser Lys Lys Lys Cys Asp Glu Leu Ala Ala Lys Leu Thr Gly Leu  
                                   370                                  375                                  380

Gly Leu Asn Ala Val Ala Tyr Tyr Arg Gly Leu Asp Val Ser Val Ile  
                                   385                                  390                                  395                                  400

Pro Thr Ser Gly Asp Val Val Val Val Ala Thr Asp Ala Leu Met Thr  
                                   405                                  410                                  415

Gly Phe Thr Gly Asp Phe Asp Ser Val Ile Asp Cys Asn Thr Cys Val  
                                   420                                  425                                  430

Thr Gln Thr Val Asp Phe Ser Leu Asp Pro Thr Phe Thr Ile Glu Thr  
                                   435                                  440                                  445

Thr Thr Leu Pro Gln Asp Ala Val Ser Arg Ala Gln Arg Arg Gly Arg  
                                   450                                  455                                  460

Thr Gly Arg Gly Arg Ser Gly Ile Tyr Arg Phe Val Thr Pro Gly Glu  
465 470 475 480

Arg Pro Ser Gly Met Phe Asp Ser Ser Val Leu Cys Glu Cys Tyr Asp  
485 490 495

Ala Gly Cys Ala Trp Tyr Glu Leu Thr Pro Ala Glu Thr Ser Val Arg  
500 505 510

Leu Arg Ala Tyr Leu Asn Thr Pro Gly Leu Pro Val Cys Gln Asp His  
515 520 525

Leu Glu Phe Trp Glu Ser Val Phe Thr Gly Leu Thr His Ile Asp Ala  
530 535 540

His Phe Leu Ser Gln Thr Lys Gln Ala Gly Asp Asn Leu Pro Tyr Leu  
545 550 555 560

Val Ala Tyr Gln Ala Thr Val Cys Ala Arg Ala Gln Ala Pro Pro Pro  
565 570 575

Ser Trp Asp Gln Met Trp Lys Cys Leu Ile Arg Leu Lys Pro Thr Leu  
580 585 590

His Gly Pro Thr Pro Leu Leu Tyr Arg Leu Gly Ala Val Gln Asn Glu  
595 600 605

Val Thr Leu Thr His Pro Ile Thr Lys Tyr Ile Met Ala Cys Met Ser  
610 615 620

Ala Asp Leu Glu Val Val Thr Ser Thr Trp Val  
625 630 635

<210> 13  
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<212> PRT  
<213> Hepatitis C virus

<400> 13

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

<210> 14  
 <211> 10  
 <212> PRT  
 <213> Hepatitis C virus

<400> 14

Val Leu Ser Thr Ala Thr Gln Ser Phe Leu  
 1 5 10

<210> 15  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 15

Lys Gly Ser Ser Gly Gly Pro Leu Leu  
 1 5

<210> 16  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 16

Leu Leu Cys Pro Ser Gly His Val Val  
 1 5

<210> 17  
 <211> 10  
 <212> PRT  
 <213> Hepatitis C virus

<400> 17

Phe Ile Pro Val Glu Ser Met Glu Thr Thr  
 1 5 10

<210> 18  
 <211> 10  
 <212> PRT  
 <213> Hepatitis C virus

<400> 18

Ser Ser Pro Pro Ala Val Pro Gln Thr Phe  
 1 5 10

<210> 19  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 19

Ala Tyr Met Ser Lys Ala His Gly Ile  
 1 5

<210> 20  
 <211> 11  
 <212> PRT  
 <213> Hepatitis C virus

<400> 20

Arg Thr Gly Val Arg Thr Ile Thr Thr Thr Gly  
 1 5 10

<210> 21  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 21

Arg Thr Ile Thr Thr Gly Gly Pro Ile  
 1 5

<210> 22  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 22

Thr Tyr Ser Thr Tyr Cys Lys Phe Leu  
 1 5

<210> 23  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 23

Thr Ile Leu Gly Ile Gly Thr Val Leu  
 1 5

<210> 24  
 <211> 10  
 <212> PRT  
 <213> Hepatitis C virus

<400> 24

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

<210> 25  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 25

Val Ala Leu Ser Asn Thr Gly Glu Ile  
 1 5

<210> 26  
 <211> 10  
 <212> PRT  
 <213> Hepatitis C virus

<400> 26

Ala Ile Pro Ile Glu Ala Ile Lys Gly Gly  
 1 5 10

<210> 27  
 <211> 10  
 <212> PRT  
 <213> Hepatitis C virus

<400> 27

Lys Cys Asp Glu Leu Ala Ala Lys Leu Thr  
 1 5 10

<210> 28  
 <211> 10  
 <212> PRT  
 <213> Hepatitis C virus

<400> 28

Val Val Val Val Ala Thr Asp Ala Leu Met  
 1 5 10

<210> 29  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 29

Thr Phe Thr Ile Glu Thr Thr Thr Leu  
 1 5

<210> 30  
 <211> 10  
 <212> PRT  
 <213> Hepatitis C virus

<400> 30

Val Asp Phe Ser Leu Asp Pro Thr Phe Thr  
 1 5 10

<210> 31  
 <211> 10  
 <212> PRT  
 <213> Hepatitis C virus

<400> 31

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

<210> 32  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 32

Ala Tyr Leu Asn Thr Pro Gly Leu Pro  
 1 5

<210> 33  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 33

Ser Val Phe Thr Gly Leu Thr His Ile  
 1 5



<210> 34  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 34

Leu Thr His Ile Asp Ala His Phe Leu  
 1 5

<210> 35  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 35

Cys Leu Ile Arg Leu Lys Pro Thr Leu  
 1 5

<210> 36  
 <211> 10  
 <212> PRT  
 <213> Hepatitis C virus

<400> 36

Gly Pro Thr Pro Leu Leu Tyr Arg Leu Gly  
 1 5 10

<210> 37  
 <211> 9  
 <212> PRT  
 <213> Hepatitis C virus

<400> 37

Leu Thr His Pro Ile Thr Lys Tyr Ile  
 1 5

<210> 38  
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 <212> DNA  
 <213> Artificial

<220>  
 <223> Forward primer DLL4

<400> 38  
 gtgggtaaga tttggcgaac  
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<210> 39  
<211> 20  
<212> DNA  
<213> Artificial

<220>  
<223> DLL4 reverse

<400> 39  
gtgggggata cattcattgc  
20

<210> 40  
<211> 20  
<212> DNA  
<213> Artificial

<220>  
<223> Jagged 1 forward

<400> 40  
tatctgtcca cctggctatg  
20

<210> 41  
<211> 20  
<212> DNA  
<213> Artificial

<220>  
<223> Jagged 1 reverse

<400> 41  
agtcactggc acgattgtag  
20

<210> 42  
<211> 20  
<212> DNA  
<213> Artificial

<220>  
<223> Jagged 2 forward

<400> 42  
tcgtcgatcat tccctttcag  
20

<210> 43  
<211> 20  
<212> DNA

<213> Artificial

<220>

<223> Jagged 2 reverse

<400> 43

gtggcactgt agtagttctc

20

<210> 44

<211> 9

<212> PRT

<213> Artificial

<220>

<223> HCV NS3 peptide

<400> 44

Cys Ile Asn Gly Val Cys Trp Thr Val

1

5

<210> 45

<211> 10

<212> PRT

<213> Artificial

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<223> HCV NS3 CD8 epitope

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Gly Leu Leu Gly Cys Ile Ile Thr Ser Leu

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<210> 46

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<212> PRT

<213> Artificial

<220>

<223> HCV NS3 CD8 epitope

<400> 46

Lys Leu Val Gly Leu Gly Ile Asn Ala Val

1

5

10