

LISTAGEM DE SEQUÊNCIAS

<110> FIOCRUZ FUNDAÇÃO OSWALDO CRUZ

<120> "POLIPEPTÍDEO, CASSETE DE EXPRESSÃO, VETOR DE EXPRESSÃO, CÉLULA HOSPEDEIRA, KIT PARA TRIAGEM IMUNOLÓGICA DE HCV E/OU DIAGNÓSTICO DE HEPATITE C, COMPOSIÇÃO, USO DE PELO MENOS UM POLIPEPTÍDEO, E, MÉTODOS PARA PRODUZIR UM POLIPEPTÍDEO, PARA TRIAGEM IMUNOLÓGICA DE HCV E PARA O DIAGNÓSTICO DE HEPATITE C"

<130> Caso 163

<160> 16

<170> PatentIn version 3.5

<210> 1

<211> 366

<212> PRT

<213> Sequência Artificial

<220>

<223> Poliantígeno composto das regiões NC e NS4 de HCV genótipo 3a

<400> 1

Met Ala Gly Ser Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys
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Arg Asn Thr Ile Arg Arg Pro Pro Asp Val Lys Phe Pro Gly Gly Gly
20 25 30

Gln Ile Val Gly Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu
35 40 45

Gly Val Arg Ala Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly
50 55 60

Arg Arg Gln Pro Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp
65 70 75 80

Ala Gln Pro Gly Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly
85 90 95

Trp Ala Gly Trp Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly
100 105 110

Pro Asn Asp Pro Arg Arg Arg Ser Arg Asn Leu Lys Pro Ala Leu Val
115 120 125

Pro Asp Lys Glu Val Leu Tyr Gln Gln Tyr Asp Glu Met Glu Glu Cys
130 135 140

Ser Gln Ala Ala Pro Tyr Ile Glu Gln Ala Gln Val Ile Ala His Gln
145 150 155 160

Phe Lys Glu Lys Ser Leu Met Ala Phe Thr Ala Ser Val Thr Ser Pro
165 170 175

Leu Thr Thr Asn Gln Thr Met Phe Phe Asn Ile Leu Gly Gly Trp Val
180 185 190

Ala Thr His Leu Ala Gly Pro Gln Gly Ser Ser Ala Phe Val Val Ser
195 200 205

Gly Leu Ala Gly Ala Ala Ile Gly Gly Ile Gly Leu Gly Lys Val Leu
210 215 220

Leu Asp Ile Leu Ala Gly Tyr Gly Ala Gly Val Ser Gly Ala Leu Val
225 230 235 240

Ala Phe Lys Phe Ala Ser Arg Gly Asn His Val Ser Pro Thr His Tyr
245 250 255

Val Pro Glu Ser Asp Ala Lys Ala Thr Cys Gln Thr His Arg Pro His
260 265 270

Pro Asp Ala Glu Leu Val Asp Ala Asn Leu Leu Trp Gln Glu Met Gly
275 280 285

Ser Asn Ile Thr Arg Val Glu Ser Glu Thr Lys Val Val Ile Leu Asp
290 295 300

Ser Phe Glu Pro Leu Arg Ala Glu Thr Asp Asp Thr Glu Leu Ser Val
305 310 315 320

Ala Ala Glu Cys Phe Lys Lys Pro Pro Lys Tyr Pro Pro Ala Leu Pro
325 330 335

Ile Trp Ala Arg Pro Asp Tyr Asn Pro Pro Leu Leu Asp Arg Trp Lys
340 345 350

Ala Pro Asp Tyr Val Pro Pro Thr Val His Gly Ala Asn Ser
355 360 365

<210> 2

<211> 1112

<212> DNA

<213> Sequencia Artificial

<220>

<223> Poliantígeno composto das regiões NC e NS4 de HCV genótipo 3a

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tgccgcgtcg cgggtccgct ctgggtgtgc gcgacccg taaaacgagt gaacgttccc 180

agccgcgtgg tcgtcgcaa ccgattccga aggcgcgtcg cagtgaaggt cgttcctggg 240

cacagccggg ttatccgtgg ccgctgtacg gtaacgaagg ctgcggttgg gcaggttggc 300

tgctgtcacc gcgtggttca cgtccgtcgt ggggtccgaa cgatccgcgt cgccgttcgc 360
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 tggagaatg tagccaggcg gccccgtaca ttgaacaggc gcaagttatc gcccatcaat 480
 ttaaagaaaa gtctctgatg gcgttcaccg ccagcgtcac gtctccgctg accacgaacc 540
 agaccatggt tttcaatatt ctgggcggtt ggggtggcaac gcacctggct ggtccgcaag 600
 gcagctctgc atttgttgtt agtggctctgg ctggcgcagc tattggcggg atcggcctgg 660
 gtaaagttct gctggatata ctggcagggt atgggtgcagg tgtagcggg gactggtcgc 720
 cttttaaatt cgcctcacgc ggtaaccatg tgtcgccgac ccactacgtt ccggaaagcg 780
 acgcaaaggc tacctgccag acgcatcgtc cgcacccgga tgcagaactg gtggacgcta 840
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<210> 3
 <211> 261
 <212> PRT
 <213> Sequencia Artificial

<220>
 <223> Poliantigeno composto das regiões NC e NS4 de HCV genotipo 1b

<400> 3

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

Asn Thr Asn Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln
 20 25 30

Ile Val Gly Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly
 35 40 45

Val Arg Ala Thr Arg Lys Thr Ser Glu Arg Pro Gln Pro Arg Gly Arg
 50 55 60

Arg Gln Pro Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Ala Trp Ala
 65 70 75 80

Gln Pro Gly Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp
 85 90 95

Ala Gly Trp Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro
 100 105 110

Thr Asp Pro Arg Arg Arg Ser Arg Asn Leu Arg Pro Ala Val Ile Pro
 115 120 125

Asp Arg Glu Val Leu Tyr Gln Glu Phe Asp Glu Met Glu Glu Cys Ala
 130 135 140

Ser His Leu Pro Tyr Ile Glu Gln Gly Met Gln Leu Ala Glu Gln Phe
 145 150 155 160

Lys Gln Lys Ser Leu Met Ala Phe Thr Ala Ser Ile Thr Ser Pro Leu
 165 170 175

Thr Thr Gln Tyr Thr Leu Leu Phe Asn Ile Leu Gly Gly Trp Val Ala
 180 185 190

Ala Gln Leu Ala Pro Pro Ser Ala Ala Ser Ala Phe Val Gly Ala Gly
 195 200 205

Ile Ala Gly Ala Ala Val Gly Ser Ile Gly Leu Gly Lys Val Leu Val
 210 215 220

Asp Ile Leu Ala Gly Tyr Gly Ala Gly Val Ala Gly Ala Leu Val Ala
 225 230 235 240

Phe Lys Phe Ala Ser Arg Gly Asn His Val Ser Pro Thr His Tyr Val
 245 250 255

Pro Glu Ser Asp Ala
 260

<210> 4

<211> 798

<212> DNA

<213> Sequência Artificial

<220>

<223> Poliantígeno composto das regiões NC e NS4 de HCV genótipo 1b

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gtcgtccgca agatgtcaag tttccgggtg gcggtcaaat cgtgggcggt gtttatctgc 120

tgccgcgtcg cggtcgcgt ctgggtgtgc gcgcgacccg taaaacgagt gaacgtccgc 180

agccgcgtgg tcgtcgcaa ccgattccga aggcacgtca gccggaaggt cgtgcatggg 240

ctcaaccggg ctatccgtgg ccgctgtacg gtaacgaagg cctggggttg gcaggttggc 300

tgctgtcacc gcgtggtagc cgtccgtctt ggggtccgac cgatccgct cgccgttcgc 360

gtaatctgcg tccggccgtt attccggtc gtgaagtcct gtatcaggaa ttgacgaaa 420

tggaagaatg gccagccat ctgccgtaca tcgaacaggg catgcaactg gcagaacagt 480

ttaaacaanaa gtctctgatg gcgttcaccg ccagtattac gtccccgctg accacgcagt 540

acaccctgct gtttaacatc ctgggcgggtt gggttgcagc acaactggca ccgccgtcag 600

cagcttcggc attcgttggg gcaggtattg ctggtgcagc agtcggctct atcggctctgg 660

gtaaagtcct ggtggatatt ctggcaggtt atggtgcagg tgtcgcaggt gccctggtgg 720
 catttaaatt cgctagccgc ggtaaccatg tgtctccgac cactacggt ccggaagcg 780
 acgcataaaa gcttcatg 798

<210> 5
 <211> 480
 <212> PRT
 <213> Sequencia Artificial

<220>
 <223> Poliantígeno composto das regiões NS3 e NS5 de HCV genótipo 1b

<400> 5

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

Val Asp Gln Asp Leu Val Gly Trp Pro Ala Pro Pro Gly Ala Arg Ser
 20 25 30

Met Thr Pro Cys Thr Cys Gly Ser Ser Asp Leu Tyr Leu Val Thr Arg
 35 40 45

His Ala Asp Val Ile Pro Val Arg Arg Arg Gly Asp Ser Arg Gly Ser
 50 55 60

Leu Leu Ser Pro Arg Pro Ile Ser Tyr Leu Lys Gly Ser Ser Gly Gly
 65 70 75 80

Pro Leu Leu Cys Pro Ser Gly His Val Val Gly Ile Phe Arg Ala Ala
 85 90 95

Val Cys Thr Arg Gly Val Ala Lys Ala Val Asp Phe Val Pro Val Glu
 100 105 110

Ser Met Glu Thr Thr Met Arg Ser Pro Val Phe Thr Asp Asn Ser Thr
 115 120 125

Pro Pro Ala Val Pro Gln Ser Phe Gln Val Ala His Leu His Ala Pro
 130 135 140

Thr Gly Ser Gly Lys Ser Thr Lys Val Pro Ala Ala Tyr Ala Ala Gln
 145 150 155 160

Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val Ala Ala Thr Leu Gly
 165 170 175

Phe Gly Ala Tyr Met Ser Lys Ala His Gly Val Asp Pro Asn Ile Arg
 180 185 190

Thr Gly Val Arg Thr Ile Thr Thr Gly Ala Pro Ile Thr Tyr Ser Thr
 195 200 205

Tyr Gly Lys Phe Leu Ala Asp Gly Gly Cys Ser Gly Gly Ala Tyr Asp
 210 215 220

Ile Ile Ile Cys Asp Glu Cys His Ser Thr Asp Ser Thr Ser Ile Leu
 225 230 235 240

Gly Ile Gly Thr Val Leu Asp Gln Ala Glu Thr Ala Gly Ala Arg Leu
 245 250 255

Val Val Leu Ala Thr Ala Thr Pro Pro Gly Ser Val Thr Val Pro His
 260 265 270

Pro Asn Ile Glu Glu Val Ala Leu Ser Asn Thr Gly Glu Ile Pro Phe
 275 280 285

Tyr Gly Lys Ala Ile Pro Leu Glu Ala Ile Lys Gly Gly Arg His Leu
 290 295 300

Ile Phe Cys His Ser Lys Lys Lys Cys Asp Glu Leu Ala Ala Lys Leu
 305 310 315 320

Ser Ala Leu Gly Val Asn Ala Val Ala Tyr Tyr Arg Gly Leu Asp Val
 325 330 335

Ser Ile Ile Pro Thr Ser Gly Asp Val Val Val Val Ala Thr Asp Ala
 340 345 350

Leu Met Thr Gly Tyr Thr Gly Asp Phe Asp Ser Val Ile Asp Cys Asn
 355 360 365

Thr Cys Val Thr Ala Asn Ser Lys Ala Thr Cys Thr Thr His His Gly
 370 375 380

Ala Pro Asp Thr Asp Leu Ile Glu Ala Asn Leu Leu Trp Arg Gln Glu
 385 390 395 400

Met Gly Gly Asn Ile Thr Arg Val Glu Ser Glu Asn Lys Ile Val Ile
 405 410 415

Leu Asp Ser Phe Glu Pro Leu Arg Ala Glu Glu Asp Glu Arg Glu Val
 420 425 430

Ser Val Ala Ala Glu Ile Leu Arg Lys Thr Arg Lys Phe Pro Ala Ala
 435 440 445

Met Pro Val Trp Ala Arg Pro Asp Tyr Asn Pro Pro Leu Leu Glu Ser
 450 455 460

Trp Lys Asn Pro Asp Tyr Val Pro Pro Val Val His Gly Ala Asn Ser
 465 470 475 480

<210> 6

<211> 1355

<212> DNA

<213> Sequência Artificial

<220>

<223> Poliantígeno composto das regiões NS3 e NS5 de HCV genótipo 1b

<400> 6

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gctctgatct gtatctgggtg acccgatcat cagacgtcat cccgggtgctg cgccgtgggtg    180
atagccgtgg ttctctgctg agtccgcgtc cgatttcata cctgaagggc agttccggcg      240
gtccgctgct gtgcccgtcg ggtcacgtgg ttggtatctt tcgtgcagca gtgtgtacct      300
gtggtgtggc aaaagctggt gacttcgtcc cgggtggaatc tatggaaacc acgatgcgta      360
gtccggtttt taccgataac tccacgccgc cggcagctcc gcagagtttc caagtggcac      420
atctgcacgc accgaccggc tccggcaagt caacgaaagt cccggcagct tatgcccggc      480
agggttacaa ggttctggct ctgaaccctg cagttgcagc taccctgggc tttggtgcat      540
atatgtcgaa agctcatggc gttgatccga atattcgac cggcgttcgt acgatcacca      600
cgggtgcccc gattacctat agcacgtacg gtaaattcct ggcagatggc ggttgctctg      660
gcggtgctta cgatattatc atttgcgacg aatgtcatag caccgactca acgtcgatcc      720
tgggcattgg taccgtgctg gatcaagcag aaacggcagg tgcacgcctg gtcgtgctgg      780
caaccgtac gccgccgggt tcagtgaccg ttccgcacc gaacatcgaa gaagttgcac      840
tgtctaatac cggcgaaatt ccgttttatg gcaaggcgtat cccgctggaa gccattaaag      900
gcggtcgcca tctgatcttc tgccacagta aaaagaaatg tgacgaactg gcggccaaac      960
tgtccgcaat ggggtgtaac gcagtcgcat attaccgtgg tctggatgtg tcgatcattc     1020
cgaccagcgg cgatgttgct gtggttgcaa ccgacgctct gatgaccggc tatacgggtg     1080
atthtgacag cgttattgat tgcaatacct gtgtcacggc gaattccaag gctacctgta     1140
ccacgcatca cggcgcaccg gatacggacc tgattgaagc taatctgctg tggcggcagg     1200
aaatgggcgg taacatcacc cgtgtcgaaa gtgaaaacaa gatcgtgatc ctggattcct     1260
ttgaaccgct gcgcgcggaa gaagacgaac gtgaagttag tgtcgcagct gaaatcctgc     1320
gcaaaacgcg taagttcccg gcagcaatgc cggtg                                  1355

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<210> 7

<211> 514

<212> PRT

<213> Sequência Artificial

<220>

<223> Poliantígeno composto das regiões NS3 e NS4 de HCV genótipo 1b

<400> 7

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

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Val Asp Gln Asp Leu Val Gly Trp Pro Ala Pro Pro Gly Ala Arg Ser
 20 25 30

Met Thr Pro Cys Thr Cys Gly Ser Ser Asp Leu Tyr Leu Val Thr Arg
 35 40 45

His Ala Asp Val Ile Pro Val Arg Arg Arg Gly Asp Ser Arg Gly Ser
 50 55 60

Leu Leu Ser Pro Arg Pro Ile Ser Tyr Leu Lys Gly Ser Ser Gly Gly
 65 70 75 80

Pro Leu Leu Cys Pro Ser Gly His Val Val Gly Ile Phe Arg Ala Ala
 85 90 95

Val Cys Thr Arg Gly Val Ala Lys Ala Val Asp Phe Val Pro Val Glu
 100 105 110

Ser Met Glu Thr Thr Met Arg Ser Pro Val Phe Thr Asp Asn Ser Thr
 115 120 125

Pro Pro Ala Val Pro Gln Ser Phe Gln Val Ala His Leu His Ala Pro
 130 135 140

Thr Gly Ser Gly Lys Ser Thr Lys Val Pro Ala Ala Tyr Ala Ala Gln
 145 150 155 160

Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val Ala Ala Thr Leu Gly
 165 170 175

Phe Gly Ala Tyr Met Ser Lys Ala His Gly Val Asp Pro Asn Ile Arg
 180 185 190

Thr Gly Val Arg Thr Ile Thr Thr Gly Ala Pro Ile Thr Tyr Ser Thr
 195 200 205

Tyr Gly Lys Phe Leu Ala Asp Gly Gly Cys Ser Gly Gly Ala Tyr Asp
 210 215 220

Ile Ile Ile Cys Asp Glu Cys His Ser Thr Asp Ser Thr Ser Ile Leu
 225 230 235 240

Gly Ile Gly Thr Val Leu Asp Gln Ala Glu Thr Ala Gly Ala Arg Leu
 245 250 255

Val Val Leu Ala Thr Ala Thr Pro Pro Gly Ser Val Thr Val Pro His
 260 265 270

Pro Asn Ile Glu Glu Val Ala Leu Ser Asn Thr Gly Glu Ile Pro Phe
 275 280 285

Tyr Gly Lys Ala Ile Pro Leu Glu Ala Ile Lys Gly Gly Arg His Leu

290

295

300

Ile Phe Cys His Ser Lys Lys Lys Cys Asp Glu Leu Ala Ala Lys Leu
305 310 315 320

Ser Ala Leu Gly Val Asn Ala Val Ala Tyr Tyr Arg Gly Leu Asp Val
325 330 335

Ser Ile Ile Pro Thr Ser Gly Asp Val Val Val Val Ala Thr Asp Ala
340 345 350

Leu Met Thr Gly Tyr Thr Gly Asp Phe Asp Ser Val Ile Asp Cys Asn
355 360 365

Thr Cys Val Thr Ala Asn Ser Arg Pro Ala Val Ile Pro Asp Arg Glu
370 375 380

Val Leu Tyr Gln Glu Phe Asp Glu Met Glu Glu Cys Ala Ser His Leu
385 390 395 400

Pro Tyr Ile Glu Gln Gly Met Gln Leu Ala Glu Gln Phe Lys Gln Lys
405 410 415

Ser Leu Met Ala Phe Thr Ala Ser Ile Thr Ser Pro Leu Thr Thr Gln
420 425 430

Tyr Thr Leu Leu Phe Asn Ile Leu Gly Gly Trp Val Ala Ala Gln Leu
435 440 445

Ala Pro Pro Ser Ala Ala Ser Ala Phe Val Gly Ala Gly Ile Ala Gly
450 455 460

Ala Ala Val Gly Ser Ile Gly Leu Gly Lys Val Leu Val Asp Ile Leu
465 470 475 480

Ala Gly Tyr Gly Ala Gly Val Ala Gly Ala Leu Val Ala Phe Lys Phe
485 490 495

Ala Ser Arg Gly Asn His Val Ser Pro Thr His Tyr Val Pro Glu Ser
500 505 510

Asp Ala

<210> 8

<211> 1553

<212> DNA

<213> Sequência Artificial

<220>

<223> Poliantígeno composto das regiões NS3 e NS4 de HCV genótipo 1b

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 atagccgtgg ttctctgctg agtccgcgctc cgatttcata cctgaagggc agttccggcg 240
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 agggttacaa ggttctgggtc ctgaaccctg cagttgcagc taccctgggc tttgggtgcat 540
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 gcggtgctta cgatattatc atttgcgacg aatgtcatag caccgactca acgtcgatcc 720
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 gcggtcgcca tctgatcttc tgccacagta aaaagaaatg tgacgaactg gcggccaaac 960
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<210> 9

<211> 298

<212> PRT

<213> Sequencia Artificial

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<223> Poliantígeno composto das regiões NC e NS5 de HCV genótipo 1b

<400> 9

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

Asn Thr Asn Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln
 20 25 30

Ile Val Gly Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly
 35 40 45

Val Arg Ala Thr Arg Lys Thr Ser Glu Arg Pro Gln Pro Arg Gly Arg
 50 55 60

Arg Gln Pro Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Ala Trp Ala
 65 70 75 80

Gln Pro Gly Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp
 85 90 95

Ala Gly Trp Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro
 100 105 110

Thr Asp Pro Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr
 115 120 125

Leu Thr Cys Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly
 130 135 140

Ala Pro Leu Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val
 145 150 155 160

Leu Glu Asp Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser
 165 170 175

Phe Ser Ile Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala
 180 185 190

Ser Ala Asn Ser Lys Ala Thr Cys Thr Thr His His Gly Ala Pro Asp
 195 200 205

Thr Asp Leu Ile Glu Ala Asn Leu Leu Trp Arg Gln Glu Met Gly Gly
 210 215 220

Asn Ile Thr Arg Val Glu Ser Glu Asn Lys Ile Val Ile Leu Asp Ser
 225 230 235 240

Phe Glu Pro Leu Arg Ala Glu Glu Asp Glu Arg Glu Val Ser Val Ala
 245 250 255

Ala Glu Ile Leu Arg Lys Thr Arg Lys Phe Pro Ala Ala Met Pro Val
 260 265 270

Trp Ala Arg Pro Asp Tyr Asn Pro Pro Leu Leu Glu Ser Trp Lys Asn
 275 280 285

Pro Asp Tyr Val Pro Pro Val Val His Gly
 290 295

<210> 10

<211> 902

<212> DNA

<213> Sequência Artificial

<220>

<223> Poliantígeno composto das regiões NC e NS5 de HCV genótipo 1b

<400> 10

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tgccgcgtcg cggtcgcgt ctgggtgtgc gcgcaacccg taaaacgtcc gaacgtccgc      180
agccgcgtgg tcgtcgccaa ccgattccga aggctcgtca gccggaaggt cgtgcatggg      240
ctcaaccggg ctatccgtgg ccgctgtacg gtaacgaagg tctgggttgg gcaggttggc      300
tgctgagccc gcgtggcagt cgtccgtcct ggggtccgac cgatccgcgt cgccgttctc      360
gtaatctggg taaagttatt gataccctga cgtgcggcct tgcggacctg atgggttata      420
tcccgtggt cggcgcaccg ctgggcgggt cagcacgtgc gctggcgcac ggcgtgcgtg      480
ttctggaaga cgggttaaac tacgccaccg gcaatctgcc gggttgcagc ttttctatct      540
tcctgctggc actgctgtca tgtctgacga tcccggcttc ggcgaattcc aaggctacct      600
gtaccacgca tcacggcgca ccgatacgg acctgattga agctaactg ctgtggcgcc      660
aggaaatggg cgtaacatc acccgtgtcg aaagtgaaaa caagatcgtg atcctggatt      720
ccttgaacc gctgcgcgcg gaagaagacg aacgtgaagt tagtgtcgca gctgaaatcc      780
tgcgcaaac gcgtaagttc ccggcagcaa tgccggtgtg ggcacgtccg gattataacc      840
cgccgctgct ggaatcctgg aaaaatccgg actacgttcc gccggtggtt cacggtaagc      900
tt                                                                                   902

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<210> 11

<211> 26

<212> DNA

<213> Sequência Artificial

<220>

<223> Iniciador direto

<400> 11

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ccatggctgg atcctcaacc aatccg                                                                                   26

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<210> 12

<211> 39

<212> DNA

<213> Sequência Artificial

<220>

<223> Iniciador reverso

<400> 12

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catgaagctt ttatgcgtag ctttccggaa cgtagtggg                                                                                   39

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<210> 13

<211> 33

<212> DNA

<213> Sequência Artificial

<220>

<223> Iniciador direto

<400> 13

gcgaattcca aggctacctg taccacgcat cac

33

<210> 14

<211> 35

<212> DNA

<213> Sequência Artificial

<220>

<223> Iniciador reverso

<400> 14

catgaagctt ttaaccgtga accaccggcg gaacg

35

<210> 15

<211> 31

<212> DNA

<213> Sequência Artificial

<220>

<223> Iniciador direto

<400> 15

gcgaattccg tccggccgtt attccggatc g

31

<210> 16

<211> 39

<212> DNA

<213> Sequência Artificial

<220>

<223> Iniciador reverso

<400> 16

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39