

BR72016CJjv-seq1
SEQUENCE LISTING

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<130> THERA14.1

<150> EP14290009.1

<151> 2014-01-27

<160> 71

<170> PatentIn version 3.5

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<213> Human T-cell lymphotropic virus

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<223> Synthetic Tax antigen

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 <211> 357
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 <213> Artificial Sequence

<220>
 <223> Synthetic HBZ antigen

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<210> 11
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 <212> DNA
 <213> Homo sapiens

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<210> 13
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 <212> DNA
 <213> Homo sapiens

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<400> 13

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<223> Synthetic P30II antigen

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<212> DNA

<213> Artificial Sequence

<220>

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<223> Synthetic TAX-HBZ

<400> 15

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<210> 16

<211> 1212

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<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic HBZ-TAX CO

<400> 16

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<210> 17
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<210> 19
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 <212> DNA
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<220>
 <223> Synthetic p12Ip30II

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agcctgacca caggcgccct gatcatcctg cccgaggact gcctgcccac caccctgttt	840
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ggcccctgcc ctaaggacgg ccagcctagc ctggtgctgc agagcagcag cttcatcttc	1020
cacaagtcc agaccaaggc ctaccacccc agctttctgc tgagccacgg cctgatccag	1080
tactccagct tccacaacct gcatctgctg ttcgaagagt acaccaacat ccccatctcc	1140
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gacggcctgc tgagcctgga agaggaactg aaggacaaag aggaagagaa ggccgtcctg	1260
gatggcctgc tgtctctgga agaagagagc cggggcagac tgcggagagg ccctcctggc	1320
gagaaagccc cccctagagg cgagacacac cgggacagac agagaagggc cgaggaagag	1380
cgcgagaaaag aagaggaaaa gcagatcgcc gagtacctga agcggaaaaga agaagagaaa	1440
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BR72016CJjv-seq1

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<220>
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 cccagcttcc ccaccagcg gaccagcaag accctgaagg tgctgacccc ccccatcacc 180
 cacaccaccc ccaatatccc cccagcttc ctgcaggcca tgcggaagta cagccccttc 240
 cggaacggct acatggaacc caccctgggc cagcatctgc ccaccctgag cttccccgat 300
 cctggcctgc ggccccagaa cctgtatacc ctgtggggcg gcagcgtcgt gtgcatgtac 360
 ctgtaccagc tgagccctcc tatcacctgg cccctgctgc cccacgtgat cttttgccac 420
 cctggacagc tgggcgctt cctgaccaac gtgccctaca agcggatcga gaagctgctg 480
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 accctgtttc agcccgccag agcccctgtg accctgaccg cctggcagaa cggcctgctg 600
 cccttcaca gcaccctgac caccctggc ctgatctgga ctttaccga cggcaccccc 660
 atgatcagcg gcccctgccc taaggacggc cagcctagcc tgggtgctgca gagcagcagc 720
 ttcatcttcc acaagttcca gaccaaggcc taccaccca gctttctgct gagccacggc 780
 ctgatccagt actccagctt ccacaacctg catctgctgt tcgaagagta caccaacatc 840
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 gccgtcctgg atggcctgct gtctctggaa gaagagagcc ggggcagact gcggagaggc 1020
 cctcctggcg agaaaagcccc ccctagaggc gagacacacc gggacagaca gagaagggcc 1080
 gaggaagagc gcgagaaaaga agaggaaaag cagatcgccg agtacctgaa gcggaaaagaa 1140
 gaagagaaaag cccgcgagaa gaaagccgcc gacgtggcca gacggaagca ggaagaacag 1200

BR72016CJjv-seq1

gaacggatgat gaatgcccga gaccagaagg cggcccagaa gaagccagag aaagaggccc	1260
cctacccccct ggcagcctcc tccattcagt ctgcagggcc tgcacctggc cttccagctg	1320
agcagcattg ccatcaaccc ccagctgctg cacttcttct tcccttccac catgctgttc	1380
cggctgctga gccctctgtc tcctctggcc ctggccacca gcgccgcctt ttttagcgcc	1440
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gag	1503

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<220>
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<220>
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gctgataggg atgttggtgt actcttcg	28

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<400> 24	
ggatccgcca ccatgctgtt cagatgcct	29

BR72016CJjv-seq1

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<400> 25
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<220>
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 <211> 28
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<220>
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<400> 27
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<210> 28
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<400> 28
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BR72016CJjv-seq1

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<400> 29
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<210> 30
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<210> 31
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<220>
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<400> 31
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<220>
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<400> 32
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BR72016CJjv-seq1

<210> 33
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<220>
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<400> 33
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<400> 36
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BR72016CJjv-seq1

<210> 37
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<220>
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<400> 37
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<210> 38
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<220>
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<400> 38
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<210> 39
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<210> 40
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<400> 40
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BR72016CJjv-seq1

<210> 41
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<400> 41
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<210> 42
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<210> 43
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<220>
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<210> 44
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BR72016CJjv-seq1

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 <210> 48
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BR72016CJjv-seq1

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 <400> 50
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 <220>
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 <210> 52
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 <212> DNA
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 <220>
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 <400> 52
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BR72016CJjv-seq1

<210> 53
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<220>
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<220>
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<400> 54
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<210> 55
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<220>
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<210> 56
 <211> 50
 <212> DNA
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<220>
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BR72016CJjv-seq1

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 <220>
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 <220>
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 <400> 58
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 <212> DNA
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 <210> 60
 <211> 50
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 <220>
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BR72016CJjv-seq1

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<220>
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<220>
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BR72016CJjv-seq1

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<400> 65
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29

<210> 66
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<220>
 <223> HTLV-1 p12p30-Tax-HBZ fusion protein

<400> 66

Met Pro Lys Thr Arg Arg Arg Pro Arg Arg Ser Gln Arg Lys Arg Pro
 1 5 10 15

Pro Thr Pro Trp Gln Pro Pro Pro Phe Ser Leu Gln Gly Leu His Leu
 20 25 30

Ala Phe Gln Leu Ser Ser Ile Ala Ile Asn Pro Gln Leu Leu His Phe
 35 40 45

Phe Phe Pro Ser Thr Met Leu Phe Arg Leu Leu Ser Pro Leu Ser Pro
 50 55 60

Leu Ala Leu Ala Thr Ser Ala Ala Phe Phe Ser Ala Arg Leu Leu Arg
 65 70 75 80

Arg Ala Leu Thr Met Leu Ile Ile Ser Pro Leu Pro Arg Val Trp Thr
 85 90 95

BR72016CJjv-seq1

Glu Met Ala His Phe Pro Gly Phe Gly Gln Ser Leu Leu Phe Gly Tyr
 100 105 110

Pro Val Tyr Val Phe Gly Asp Cys Val Asp Gly Arg Val Ile Gly Ser
 115 120 125

Ala Leu Gln Phe Leu Ile Pro Arg Leu Pro Ser Phe Pro Thr Gln Arg
 130 135 140

Thr Ser Lys Thr Leu Lys Val Leu Thr Pro Pro Ile Thr His Thr Thr
 145 150 155 160

Pro Asn Ile Pro Pro Ser Phe Leu Gln Ala Met Arg Lys Tyr Ser Pro
 165 170 175

Phe Arg Asn Gly Tyr Met Glu Pro Thr Leu Gly Gln His Leu Pro Thr
 180 185 190

Leu Ser Phe Pro Asp Pro Gly Leu Arg Pro Gln Asn Leu Tyr Thr Leu
 195 200 205

Trp Gly Gly Ser Val Val Cys Met Tyr Leu Tyr Gln Leu Ser Pro Pro
 210 215 220

Ile Thr Trp Pro Leu Leu Pro His Val Ile Phe Cys His Pro Gly Gln
 225 230 235 240

Leu Gly Ala Phe Leu Thr Asn Val Pro Tyr Lys Arg Ile Glu Lys Leu
 245 250 255

Leu Tyr Lys Ile Ser Leu Thr Thr Gly Ala Leu Ile Ile Leu Pro Glu
 260 265 270

Asp Cys Leu Pro Thr Thr Leu Phe Gln Pro Ala Arg Ala Pro Val Thr
 275 280 285

BR72016CJjv-seq1

Leu Thr Ala Trp Gln Asn Gly Leu Leu Pro Phe His Ser Thr Leu Thr
 290 295 300

Thr Pro Gly Leu Ile Trp Thr Phe Thr Asp Gly Thr Pro Met Ile Ser
 305 310 315 320

Gly Pro Cys Pro Lys Asp Gly Gln Pro Ser Leu Val Leu Gln Ser Ser
 325 330 335

Ser Phe Ile Phe His Lys Phe Gln Thr Lys Ala Tyr His Pro Ser Phe
 340 345 350

Leu Leu Ser His Gly Leu Ile Gln Tyr Ser Ser Phe His Asn Leu His
 355 360 365

Leu Leu Phe Glu Glu Tyr Thr Asn Ile Pro Ile Ser Met Leu Phe Arg
 370 375 380

Cys Leu Pro Val Ser Cys Pro Glu Asp Leu Leu Val Glu Glu Leu Val
 385 390 395 400

Asp Gly Leu Leu Ser Leu Glu Glu Glu Leu Lys Asp Lys Glu Glu Glu
 405 410 415

Lys Ala Val Leu Asp Gly Leu Leu Ser Leu Glu Glu Glu Ser Arg Gly
 420 425 430

Arg Leu Arg Arg Gly Pro Pro Gly Glu Lys Ala Pro Pro Arg Gly Glu
 435 440 445

Thr His Arg Asp Arg Gln Arg Arg Ala Glu Glu Glu Arg Glu Lys Glu
 450 455 460

Glu Glu Lys Gln Ile Ala Glu Tyr Leu Lys Arg Lys Glu Glu Glu Lys
 465 470 475 480

BR72016CJjv-seq1

Ala Arg Glu Lys Lys Ala Ala Asp Val Ala Arg Arg Lys Gln Glu Glu
485 490 495

Gln Glu Arg

<210> 67
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<220>
<223> PCR primer

<400> 67
tggaggagga gatatgaggg 20

<210> 68
<211> 20
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<220>
<223> PCR Primer

<400> 68
ctgctgcact ataccagaca 20

<210> 69
<211> 27
<212> DNA
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<220>
<223> Probe

<400> 69
aaccattagg agtagcacc accaagg 27

<210> 70
<211> 22
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BR72016CJjv-seq1

<220>

<223> PCR Primer

<400> 70

tcatcttcca caagttccag ac

22

<210> 71

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 71

gatagggatg ttggtgtact cttc

24