

SEQUENCE LISTING

<110> THERAVECTYS
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 <130> THERA14.1
 <150> EP14290009.1
 <151> 2014-01-27
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 <213> Homo sapiens

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 <213> Human T-cell lymphotropic virus

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 <211> 357
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic HBZ antigen

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<210> 11
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<210> 12
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<220>
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201

<210> 13
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<212> DNA
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<211> 90
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic P30II antigen

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atcagccccc tgcccagagt gtggaccgag 90

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<211> 1212
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic TAX-HBZ

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cccagcttcc ccaccagcg gaccagcaag accctgaagg tgctgacccc ccccatcacc 180
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gaacggtgat	ga					1212

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<213>	Artificial Sequence
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<212> DNA
<213> Artificial Sequence

<220>
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<210> 19
<211> 291
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic p12Ip30II

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<210> 20
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 <212> DNA
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<220>
 <223> Synthetic p12Ip30II-Tax-HBZ

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 cgcgagaaaag aagaggaaaa gcagatcgcc gagtacctga agcggaaga agaagagaaa 1440
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<220>

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cccagcttcc ccacccagcg gaccagcaag accctgaagg tgctgacccc ccccatcacc	180
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cctggacagc tgggcgcttc cctgaccaac gtgccctaca agcggatcga gaagctgctg	480
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accctgtttc agcccgccag agcccctgtg accctgaccg cctggcagaa cggcctgctg	600
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29

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29

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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

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

Gln Glu Arg

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ctgctgcact ataccagaca 20

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