

2008012357
SEQUENCE LISTING

<110> CureVac GmbH
 <120> PCa-Cocktail
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 <150> PCT/EP2007/008771
 <151> 2007-10-09
 <160> 14
 <170> PatentIn version 3.3
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 <223> Description of sequence: construct RNaiveII KLK3(GC) = PSA
 (see Figure 1)

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atgctgtgcg ccggccggtg gaccggcggc aagagcacct gcagcggcga cagcggcggc      660
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<210> 2
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 <223> Description of sequence: CDS KLK3(wt) = PSA
 (see Figure 2)

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cttgtggcct ctcgtggcag ggcagtctgc ggcgggtgttc tgggtgcaccc ccagtgggtc 180
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<210> 3
<211> 786
<212> DNA
<213> Artificial

<220>
<223> Description of sequence: construct CDS KLK3(GC) = PSA
(see Figure 3)

<400> 3
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<210> 4
<211> 2457
<212> DNA
<213> Artificial

<220>
<223> Description of sequence: RNActiveII FOLH1(GC) = PSMA
(see Figure 4)

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atccagagcc agtggaagga gttcggcctg gactcgggtg agctggcgca ctacgacgtg 360
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<210> 5
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 <212> DNA
 <213> Artificial

<220>
 <223> Description of sequence: CDS FOLH1(wt) = PSMA
 (see Figure 5)

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tttttgatg	aattgaaagc tgagaacatc aagaagttct tatataattt tacacagata 240
ccacatttag	caggaacaga acaaaacttt cagcttgcaa agcaaattca atcccagtgg 300
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<210> 6
 <211> 2253
 <212> DNA
 <213> Artificial

<220>
 <223> Description of sequence: CDS FOLH1(GC) = PSMA
 (see Figure 6)

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tggttcatca agtccagcaa cgaggccacg aacatcacc cgaagcaca catgaaggcg 180
ttcctggacg agctgaaggc cgagaacatc aagaagttcc tctacaactt caccagatc 240
ccccacctgg ccgggaccga gcagaacttc cagctggcca agcagatcca gtcccagtgg 300
aaggagttcg gcctcgacag cgtggagctg gcgcactacg acgtgctgct ctctacccc 360

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<210> 7
 <211> 576
 <212> DNA

<213> Artificial

<220>

<223> Description of sequence: RNaiveII PSCA(GC)
(see Figure 7)

<400> 7

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ctgcaggtgg agaactgcac gcagctgggc gagcagtgct ggaccgcccg gatccgcgcc      180
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<210> 8

<211> 372

<212> DNA

<213> Artificial

<220>

<223> Description of sequence: CDS PSCA(wt)
(see Figure 8)

<400> 8

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aagaagaaca tcacgtgctg tgacaccgac ttgtgcaacg ccagcggggc ccatgccctg      300
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<210> 9

<211> 372

<212> DNA

<213> Artificial

<220>

<223> Description of sequence: CDS PSCA(GC)
(see Figure 9)

<400> 9

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ggccagctct ga	372

<210> 10
 <211> 1224
 <212> DNA
 <213> Artificial

<220>
 <223> Description of sequence: RNaActive II STEAP (GC) = STEAP1
 (see Figure 10)

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tgacagccagc tgtgaccact agttataaga ctgactagcc cgatgggcct cccaacgggc	1080
cctcctcccc tccttgcacc gagattaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1140
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatattccc cccccccccc cccccccccc	1200
ccccccctct agacaattgg aatt	1224

<210> 11
 <211> 1020
 <212> DNA
 <213> Artificial

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<220>

<223> Description of sequence: CDS STEAP(wt) = STEAP1
(see Figure 11)

<400> 11

atggaaagca gaaaagacat cacaaaccaa gaagaacttt ggaaaatgaa gcctaggaga	60
aatttagaag aagacgatta tttgcataag gacacgggag agaccagcat gctaaaaaga	120
cctgtgcttt tgcatttgca ccaaacagcc catgctgatg aatttgactg cccttcagaa	180
cttcagcaca cacaggaact ctttccacag tggcacttgc caattaaaat agctgctatt	240
atagcatctc tgacttttct ttacactctt ctgaggggaag taattcaccc tttagcaact	300
tcccatcaac aatattttta taaaattcca atcctgggtca tcaacaaagt cttgccaatg	360
gtttccatca ctctcttggc attgggtttac ctgccagggtg tgatagcagc aattgtccaa	420
cttcataatg gaaccaagta taagaagttt ccacattggg tggataagtg gatgttaaca	480
agaaagcagt ttgggcttct cagtttcttt tttgctgtac tgcattgcaat ttatagtctg	540
tcttacccaa tgaggcgatc ctacagatac aagttgctaa actgggcata tcaacagggtc	600
caacaaaata aagaagatgc ctggattgag catgatgttt ggagaatgga gatttatgtg	660
tctctgggaa ttgtgggatt ggcaatactg gctctgttgg ctgtgacatc tattccatct	720
gtgagtgact ctttgacatg gagagaattt cactatattc agagcaagct aggaattgtt	780
tcccttctac tgggcacaaat acacgcattg atttttgcct ggaataagtg gatagatata	840
aaacaatttg tatggtatac acctccaact tttatgatag ctgttttcct tccaattgtt	900
gtcctgatat ttaaaagcat actatttcctg ccatgcttga ggaagaagat actgaagatt	960
agacatgggtt gggaagacgt caccaaaatt aacaaaactg agatatgttc ccagttgtag	1020

<210> 12

<211> 1020

<212> DNA

<213> Artificial

<220>

<223> Description of sequence: CDS STEAP(GC) = STEAP1
(see Figure 12)

<400> 12

atggagagcc ggaaggacat caccaaccag gaggagctgt ggaagatgaa gccccgccgg	60
aacctcgagg aggacgacta cctgcacaag gacaccggcg agacgtccat gctgaagcgc	120
ccggtgctcc tgcacctgca ccagaccgcc cacgccgacg agttcgactg ccccagcgag	180
ctccagcaca cccaggagct gttccccccag tggcacctgc ccatcaagat cgcggccatc	240
atcgctctcc tcaccttcct gtacacgctg ctccgggagg tcatccaccc gctggccacc	300
agccaccagc agtacttcta caagatcccc atcctggtga tcaacaagggt gctccccatg	360
gtctccatca ccctgctggc cctcgtgtac ctgcccgggg tgatcgcggc catcgtccag	420
ctgcacaacg gcaccaagta caagaagttc ccgcactggc tcgacaagtg gatgctgacg	480
cgcaagcagt tcgggctgct cagcttcttc ttcgccgtgc tgcacgcat ctactccctg	540

2008012357

```

agctacccca tgcggcgctc ctaccggtac aagctcctga actgggcgta ccagcagggtg 600
cagcagaaca aggaggacgc ctggatcgag cacgacgtct ggcgcatgga gatctacgtg 660
agcctgggca tcgtggggct cgccatcctg gccctgctcg ccgtcacctc catccccagc 720
gtgtccgaca gcctgacctg gcgggagttc cactacatcc agtccaagct gggcatcgtg 780
agcctcctgc tgggcaccat ccacgcgctc atcttcgcct ggaacaagtg gatcgacatc 840
aagcagttcg tctggtacac gccccgacc ttcatgatcg ccgtgttcct gcccatcgtg 900
gtcctgatct tcaagtccat cctcttcctg ccctgcctgc gcaagaagat cctcaagatc 960
cggcacgggt gggaggacgt gaccaagatc aacaagaccg agatctgcag ccagctgtga 1020

```

```

<210> 13
<211> 13
<212> RNA
<213> Artificial

```

```

<220>
<223> description of sequence: kozak sequence (see description p. 28)

```

```

<400> 13
gccgccacca ugg 13

```

```

<210> 14
<211> 15
<212> RNA
<213> Artificial

```

```

<220>
<223> description of sequence: generic stabilizing sequence (see
description p. 30)

```

```

<220>
<221> variation
<222> (1)..(1)
<223> /replace="cytosine"
      /replace="uracile"

```

```

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or u

```

```

<220>
<221> variation
<222> (5)..(5)
<223> /replace="cytosine"
      /replace="uracile"
      /replace="guanosine"
      /replace="adenosine", or any other nucleic acid

```

```

<220>
<221> repeat_unit
<222> (5)..(5)

```

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<223> x = any number

<220>

<221> variation

<222> (9)..(9)

<223> /replace="uracile"

/replace="adonosine"

<220>

<221> repeat_unit

<222> (10)..(10)

<223> x = any number

<220>

<221> variation

<222> (10)..(10)

<223> /replace="pyrimidine"

<220>

<221> variation

<222> (13)..(13)

<223> /replace="cytosine"

/replace="uracile"

<400> 14

nccancccn ucnc

15