

G1023PCT_ST25.txt
SEQUENCE LISTING

<110> Helmholtz-Zentrum fuer Infektionsforschung GmbH
Weiß, Dr., Siegfried
Bartels, Dr., Sara
Löbner, Dr., Holger
Deyneko, Igor
Westphal-Daniel, Dr., Kathrin

<120> Tumour-specific bacterial promotor elements

<130> G1023PCT

<160> 28

<170> PatentIn version 3.5

<210> 1
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<223> /note="SEQ ID NO. 1 (tumour specific promoter element motif),
wherein r = g or a, y = t or c, m = a or c, k = g or t, w = a or
t, s = g or c,

b = t or g or c, v = a or g or c, h = a or t or c, d = a or t or

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is a, c, g, or t

<400> 1
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<210> 2
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<213> Artificial Sequence

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<400> 2
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<210> 3
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> /note="SEQ ID NO. 3 (tumour specific promoter element motif),
wherein r = a or g"

<400> 3
ccatatttta tttaaragga a 21

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<210> 4
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> /note="SEQ ID NO. 4 (tumour specific promoter element motif)"

<400> 4
 ccatatttta ttttagaggta a 21

<210> 5
 <211> 472
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 <213> Artificial Sequence

<220>
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<400> 5
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 gtgatatact gtgcacgttt acacataagc gaggatgata tgtctactga tttggaccca 180
 acccaactgg cgattgaatt tttacgccgt gataaaaccg aactttctcc cgcgcagtat 240
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 gaactgaaag aagagatcta tttcgcctgg cggttgggcg tgcattaata aagtctgtgt 360
 aggccggata aggcgttagc cgccatccgg ctatgttacc aggcaatctc accagacctt 420
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<210> 6
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 <213> Artificial Sequence

<220>
 <223> /note="SEQ ID NO. 6 (tumor-specific promotor element of 4ydiH)"

<400> 6
 ttttgtttaa aaaaaataca g 21

<210> 7
 <211> 1152
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<220>
 <223> /note="SEQ ID NO. 7 (t48gIpT)"

<400> 7
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 ctatatcatg ccgctccacc agaatgacac gtaaaccgcg cagcgcgcag tcgcgggcga 300

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tccctgcgcc	tggtgctcca	ccgccaatga	taatcacgtc	acttgtttgc	gagtcgcgag	360
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> /note="SEQ ID NO. 8 (tumor-specific promotor element of 48GIpT)"

<400> 8	
ttacctctaa	ataaaatatg g
	21

<210> 9
 <211> 1093
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> /note="SEQ ID NO. 9 (92yhjU)"

<400> 9		
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ggaaggattg	caggatacta tcttcgcgtc gcctccttgt cgcggcgcgg gaagcatcgc	180
gtagcaaaac	ggatttgcaa ctacctccgc ttttcagta tggtgctaca gaattatgtg	240
aaaacggcct	gcgggccggt ttgttttgtc tgaattttga gcgtgtcgta cagtattcag	300
acaaaaatta	gccgagaatt gtgaaaaccg ccgcagcatc gcacaatcac cgttctcgac	360
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<210> 10
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<220>
 <223> /note="SEQ ID NO. 10 (tumor-specific promotor element of 92yhjU)"

<400> 10
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<210> 11
 <211> 715
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> /note="SEQ ID NO. 11 (135dniR)"

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cacttcccgc aaatgacggt ttatggaccg gcggaaacgc aagacaaggg agcaacccat     180
cttgtttggcg atggcgatac tattcgcggt ttaggcgaga aatttactct ttttgccacg     240
ccggggccaca cgttaggaca cgtctgttac tttagccgcc cttacttatt ctgcggcgac     300
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aaaaatgagc gtaagattaa tcttttttta agaactgaag atattgattt aattaacgaa     600
ataaacaag aaacaatatt gcaacaacca gaagcgcggt ttgcatgggt aaggtcaaag     660
aaagacacgt tctgataatt cttacttgtc attcgctaac ttcgccgtta tgatc         715

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<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> /note="SEQ ID NO. 12 (tumor-specific promotor element of 134dniR)"

<400> 12
ttacgtgtaa aaaaacaaat g 21

<210> 13
<211> 466
<212> DNA
<213> Artificial Sequence

<220>
<223> /note="SEQ ID NO. 13 (154mdh)"

<400> 13
gatccggatt acgcaaatta aatgcataaa agccaaaatt gcgcgactcc gcattcttga 60
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caccgctgta aaaatcaaag gtttctccgg tgaagacgca accccggcgc ttgaaggcgc 360
tgacgtagta ctgatttctg cgggtgtggc gcgtaagccg ggtatggacc gttccgacct 420
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<210> 14
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> /note="SEQ ID NO. 14 (tumor-specific promotor element of 154mdh)"

<400> 14
ttacttttaa aaaaccaact g 21

<210> 15
<211> 564
<212> DNA
<213> Artificial Sequence

<220>
<223> /note="SEQ ID NO. 15 (156yeel)"

<400> 15
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ttcatcacta taagaaaatc acgtaagtgc ttgaatagtg gcggagagag agggattcga 180
accctcggcg gagttacccc cgcaacgggt ttcgagaccg gtccgttcag ccgctccggc 240
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gtaaacctca ccgcgcaaga acaggctcgg cttattgcgc tagccgaacg ttttttgcag	480
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gcgtaattt tttgcttacc gatc	564

<210> 16
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> /note="SEQ ID NO. 16 (tumor-specific promotor element of 156yee1)"

<400> 16	
tctcattttt tctcaacgtg a	21

<210> 17
 <211> 441
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> /note="SEQ ID NO. 17 (172frdA)"

<400> 17	
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aggtcacgaa gtctactcgc aacgcgcggg cgaaacaaat tttgcgcagg cgtatcgggc	180
gccttctgga gggtaaaaaa agtgatttca gatggtttag taattaaatt aatcaaaatc	240
aatgataatt catccctctg atacgctaaa aaaatcgaac acgtcaaatt tccctcacat	300
ccctgagact atactgttgt acccataaag gagcagtgga aacgcattca tacttcgcag	360
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tgcaaacctt tcaagccgat c	441

<210> 18
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> /note="SEQ ID NO. 18 (tumor-specific promotor element of 172frdA)"

<400> 18	
gcacgtttta ataaattggg g	21

<210> 19
 <211> 614
 <212> DNA
 <213> Artificial Sequence

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<220>

<223> /note="SEQ ID NO. 19 (185pfkA)"

<400> 19

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cctgtatgaa gatc	614

<210> 20

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> /note="SEQ ID NO. 20 (tumor-specific promotor element of 185pfkA)"

<400> 20

cagcattttg tgtataaatt a	21
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<210> 21

<211> 437

<212> DNA

<213> Artificial Sequence

<220>

<223> /note="SEQ ID NO. 21 (212pf1E)"

<400> 21

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gcgcaacccc ggctgtgagg tctgcgggca gtagccattt tacggataaa cataccaaag	180
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<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> /note="SEQ ID NO. 22 (tumor-specific promotor element of 212pf1E)"

<400> 22

taatctttat atgaaataag

20

<210> 23

<211> 556

<212> DNA

<213> Artificial Sequence

<220>

<223> /note="SEQ ID NO. 23 (nirB)"

<400> 23

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<210> 24

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> /note="SEQ ID NO. 24 (tumor-specific promotor element of 271nirB)"

<400> 24

ttgtatgtta tttgtacaaa c

21

<210> 25

<211> 708

<212> DNA

<213> Artificial Sequence

<220>

<223> /note="SEQ ID NO. 25 (301glpA)"

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<210> 26
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> /note="SEQ ID NO. 26 (tumor-specific promotor element of 301g1pA)"

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<210> 27
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> /note="SEQ ID NO. 27 (310ybaL)"

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caacaaattg cgtatttctc cactgggtggg atatctgtta gcgggcggtc tggcgggacc	240
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<210> 28
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<220>
 <223> /note="SEQ ID NO. 28 (tumor-specific promotor element of 310ybaL)"

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21