

2109744
SEQUENCE LISTING

<110> Universität Konstanz
Thurgauische Stiftung für Wissenschaft und Forschung

<120> Prostate Cancer DNA Vaccine

<130> 138 001

<160> 6

<170> PatentIn version 3.4

<210> 1

<211> 231

<212> DNA

<213> Escherichia coli

<400> 1

atggacaagg tgctgaaccg ggaggaaagc ctgcagctga tggacctgct gggcctggaa	60
agaagcgcct ggggcaacat cccctgatg cggaaggcct acctgaagaa gtgcaaagag	120
ttccacccccg acaagggcg cgacgaggaa aagatgaaga agatgaacac cctgtacaag	180
aaaatggaag atggcgtgaa gtacgcccac cagcccgcact tcggcggtt c	231

<210> 2

<211> 72

<212> DNA

<213> Simian virus 40

<400> 2

accaacgact gattaactct acgtacgaaa cgtatgaaga cggacgacct ctcggacccc	60
tgaaagggtgt gg	72

<210> 3

<211> 1254

<212> DNA

<213> Mus musculus

<400> 3

atgcgagccg ttcctctgcc cctgagccgg acagcaagcc tcagccttgg cttcttgctc	60
ctgctttctc tctgcctgga cccaggccaa gccaaaggagt tgaagtttgt gacattggtg	120
tttcggcatg gagaccgagg tcccatcgag acctttccta ccgaccccat tacagaatcc	180
tcgtggccac aaggatttgg ccaactcacc cagtggggca tggaacagca ctacgaactt	240
ggaagttata taaggaaaag atacggaaga ttcttgaacg acacctataa gcatgatcag	300
atattatatcc ggagcacaga tgtggacagg actttgatga gtgctatgac aaaccttgca	360
gccctgtttc ctccagaggg gatcagcatc tggaatccta gactgctctg gcagcccatc	420
ccagtgcaca ccgtgtctct ctctgaggat cggttgctgt acctgccttt cagagactgc	480
cctcgttttg aagaactcaa gagtgagact ttagaatctg aggaattctt gaagaggctt	540
catccatata aaagcttcct ggacaccttg tcgtcgctgt cgggattcga tgaccaggat	600
ctttttggaa tctggagtaa agtttatgac cctttattct gcgagagtgt tcacaatttc	660
accttgccct cctgggcccac cgaggacgcc atgattaagt tgaaagagct atcagaatta	720

tctctgctat cactttatgg aattcacaag cagaaagaga aatctcgact ccaagggggc	780
gtcctgggtca atgaaatcct caagaatatg aagcttgcaa ctcagccaca gaagtataaa	840
aagctgggtca tgtattccgc acacgacact accgtgagtg gcctgcagat ggcgctagat	900
gtttataatg gagttctgcc tccctacgct tcttgccaca tgatggaatt gtaccatgat	960
aagggggggc actttgtgga gatgtactat cggaatgaga ccagaaacga gccctaccca	1020
ctcacgctgc caggctgcac ccacagctgc cctctggaga agtttgcgga gctactggac	1080
ccggtgatct cccaggactg ggccacggag tgtatggcca caagcagcca ccaagtgtctg	1140
agggttatcc ttgccactac attttgcttg gtaaccggga tcctggtgat acttctgctt	1200
gtcctcatcc gccatgggcc ctgctggcag agagatgtgt atcggaacat ctga	1254

<210> 4
 <211> 1589
 <212> DNA
 <213> Artificial

<220>
 <223> mPAP A

<400> 4	
atggacaagg tgctgaaccg ggaggaaagc ctgcagctga tggacctgct gggcctggaa	60
agaagcgcct ggggcaacat cccctgatg cggaaggcct acctgaagaa gtgcaaagag	120
ttccacccccg acaagggcg gacgaggaa aagatgaaga agatgaacac cctgtacaag	180
aaaatggaag atggcgtgaa gtacgcccac cagcccgact tcggcggtt catgagagcc	240
gtgcccctgc ccctgagcag gaccgccagc ctgagcctgg gcttctctgct gctgctgtct	300
ctgtgcctgg accctggaca ggctaaagaa ctgaagttcg tgacctggt gttccggcac	360
ggcgacagag gcccacatga gaccttcccc accgacccca tcaccgagag cagctggccc	420
cagggcttcg gccagctgac ccagtggggc atggaacagc actacgagct gggcagctac	480
atccggaaga gatacggccg gttcctgaac gacacctaca agcacgacca gatctacatc	540
cggctctaccg acgtggaccg gaccctgatg agcgccatga ccaacctggc cgccctgttc	600
ccccccgagg gcatcagcat ctggaacccc cggtgtgtgt ggcagcccat ccccgctgcac	660
accgtgagcc tgagcgagga caggctgctg tacctgccct tcagagactg ccccggttc	720
gaggaactga agagcgagac cctggaaagc gaagagttcc tgaagcggct gcaccctac	780
aagagctttc tggacaccct gagcagcctg agcggcttcg acgaccagga cctgttcggc	840
atctggtcca aggtgtacga cccctgttc tgcgagagcg tgcacaactt taccctgccc	900
tcctggggcca ccgaggacgc catgattaag ctgaaagagc tgtccgagct gtctctgctg	960
tccctgtacg gcatccacaa gcagaaagag aagagccggc tgcagggcg cgtgctggtg	1020
aacgagatcc tgaagaacat gaagctggcc acccagcccc agaagtacaa gaaactggtc	1080
atgtacagcg cccacgacac caccgtgagc ggcctgcaga tggccctgga cgtgtacaac	1140
ggcgtgctgc cccctacgc cagctgccac atgatggaac tgtaccacga taagggcggc	1200

2109744

cacttcgtgg	agatgtacta	ccggaacgag	acccagaacg	agccctaccc	cctgaccctg	1260
cctggctgca	cccacagctg	ccccctggaa	aagttcgccg	agctgctgga	ccccgtgac	1320
tcccaggact	gggccacaga	gtgcatggcc	acctccagcc	accaggtgct	gcgggtgac	1380
ctggccacca	ccttttgcct	ggtgaccggc	atcctggtga	ttctgctgct	ggtgctgac	1440
cgccacggcc	cctgctggca	gcgggacgtg	taccggaaca	tctaccaacg	actgattaac	1500
tctacgtacg	aaacgtatga	agacggacga	cccctcggac	ccctgaaagg	tgtgggctac	1560
ccctacgacg	tgccccgacta	cgcctctag				1589

<210> 5
 <211> 1357
 <212> DNA
 <213> Artificial

<220>
 <223> mPAP B

<400> 5	
atgagagccg	tgccccctgcc cctgagcagg accgccagcc tgagcctggg cttcctgctg 60
ctgctgtctc	tgtgcctgga ccctggacag gctaaagaac tgaagttcgt gaccctgggtg 120
ttccggcacg	gcgacagagg ccccatcgag accttcccca ccgaccccat caccgagagc 180
agctggcccc	agggcttcgg ccagctgacc cagtggggca tggaaacagca ctacgagctg 240
ggcagctaca	tccggaagag atacggccgg ttctgaacg acacctaca gcacgaccag 300
atctacatcc	ggtctaccga cgtgaccgga ccctgatgag cgccatgacc aacctggccg 360
ccctgttccc	ccccgagggc atcagcatct ggaacccccg gctgctgtgg cagcccatcc 420
ccgtgcacac	cgtgagcctg agcgaggaca ggctgctgta cctgcccttc agagactgcc 480
cccggttcga	ggaactgaag agcgagaccc tggaaagcga agagttcctg aagcggctgc 540
accctacaaa	gagctttctg gacacctga gcagcctgag cggttcgac gaccaggacc 600
tgttcggcat	ctggtccaag gtgtacgacc ccctgttctg cgagagcgtg cacaacttta 660
ccctgccctc	ctgggccacc gaggacgcca tgattaagct gaaagagctg tccgagctgt 720
ctctgctgtc	cctgtacggc atccacaagc agaaagagaa gagccggctg cagggcggcg 780
tgctggtgaa	cgagatcctg aagaacatga agctggccac ccagccccag aagtacaaga 840
aactggtcat	gtacagcgcc cacgacacca ccgtgagcgg cctgcagatg gccctggacg 900
tgtacaacgg	cgtgctgccc ccctacgcca gctgccacat gatggaactg taccacgata 960
agggcgggcca	cttcgtggag atgtactacc ggaacgagac ccagaacgag ccctaccccc 1020
tgaccctgcc	tggtgcacc cacagctgcc ccctggaaaa gttcgccgag ctgctggacc 1080
ccgtgatctc	ccaggactgg gccacagagt gcatggccac ctccagccac caggtgctgc 1140
gggtgatcct	ggccaccacc ttttgcctgg tgaccggcat cctggtgatt ctgctgctgg 1200
tgctgatccg	ccacggcccc tgctggcagc gggacgtgta ccggaacatc taccaacgac 1260
tgattaactc	tacgtacgaa acgtatgaag acggacgacc cctcggaccc ctgaaagggtg 1320

tgggctaccc ctacgacgtg cccgactacg cctctag

1357

<210> 6
 <211> 1496
 <212> DNA
 <213> Artificial

<220>
 <223> mPAP C

<400> 6
 atggacaagg tgctgaaccg ggaggaaagc ctgcagctga tggacctgct gggcctggaa 60
 agaagcgcct ggggcaacat cccctgatg cggaaggcct acctgaagaa gtgcaaagag 120
 ttccacccccg acaagggcgg cgacgaggaa aagatgaaga agatgaacac cctgtacaag 180
 aaaatggaag atggcgtgaa gtacgcccat cagcccgact tcggcgggctt caaagaactg 240
 aagttcgtga ccctgggtgtt ccggcacggc gacagaggcc ccacgagac cttccccacc 300
 gaccccatca ccgagagcag ctggccccag ggcttcggcc agctgacca gtggggcatg 360
 gaacagcact acgagctggg cagctacatc cggaagagat acggccgggtt cctgaacgac 420
 acctacaagc acgaccagat ctacatccgg tctaccgacg tgggccgggtt cctgaacgac 480
 acctacaagc acgaccagat ctacatccgg tctaccgacg tgagcatctg gaacccccgg 540
 ctgctgtggc agcccatccc cgtgcacacc gtgagcctga gcgaggacag gctgctgtac 600
 ctgcccttca gagactgccc ccggttcgag gaactgaaga gcgagaccct ggaaagcgaa 660
 gagttcctga agcggctgca cccctacaag agctttcttg acaccctgag cagcctgagc 720
 ggcttcgacg accaggacct gttcggcatc tgggtccaagg tgtacgacct cctgttctgc 780
 gagagcgtgc acaactttac cctgccctcc tgggccaccg aggacgcat gattaagctg 840
 aaagagctgt ccgagctgtc tctgctgtcc ctgtacggca tccacaagca gaaagagaag 900
 agccggctgc agggcggtgt gctgggtgaac gagatcctga agaacatgaa gctggccacc 960
 cagccccaga agtacaagaa actggtcatg tacagcgccc acgacaccac cgtgagcggc 1020
 ctgcagatgg ccctggacgt gtacaacggc gtgctgcccc cctacgccag ctgccacatg 1080
 atggaactgt accacgataa gggcggccac ttcgtggaga tgtactaccg gaacgagacc 1140
 cagaacgagc cctacccccct gaccctgcct ggctgcaccc acagctgccc cctggaaaag 1200
 ttcgccgagc tgctggaccc cgtgatctcc caggactggg ccacagagtg catggccacc 1260
 tccagccacc aggtgctgcg ggtgatcctg gccaccacct tttgcctggt gaccggcatc 1320
 ctggtgattc tgctgctggt gctgatccgc cacggccccct gctggcagcg ggacgtgtac 1380
 cggaacatct accaacgact gattaactct acgtacgaaa cgtatgaaga cggacgaccc 1440
 ctcggacccc tgaaagggtgt gggctacccc tacgacgtgc ccgactacgc ctctag 1496