

Figure 1

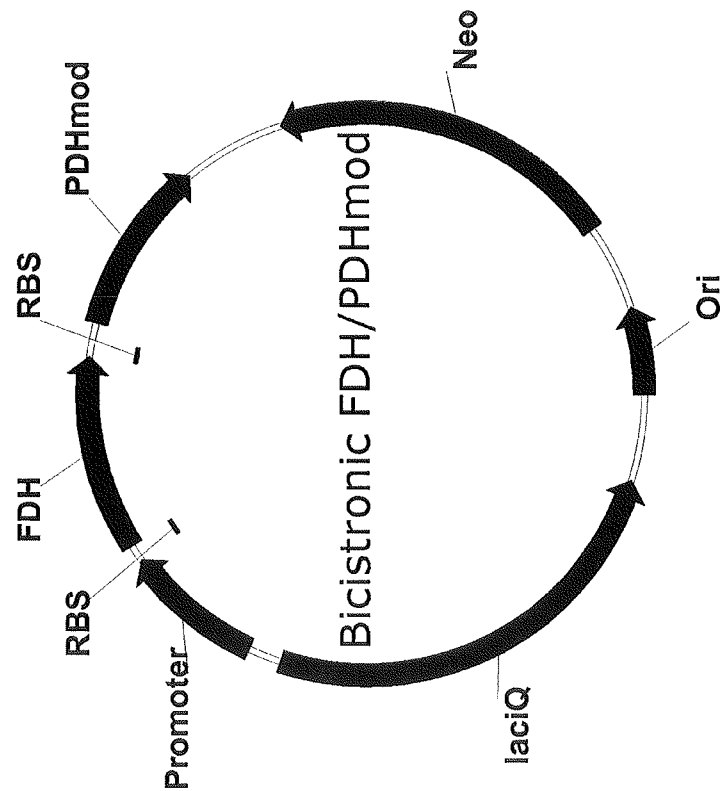


Figure 2(a)

aagcttactc cccatccccc tgttgacaat taatcatogg ctctgataat gtgtggaatt 60
gtgagcggat aacaatttca cacaggaaac aggatctoca tggatattcg tccattgcat 120
gatcgcgatga tcgtcaagcg taaagaagtt gaaactaaat ctgctggcgg catcggtctg 180
accggctctg cagcgggctaa atccaccgcg ggogaagtgc tggctgtcgg caatggccgt 240
atccttgaaa atggcggaagt gaagccgctg gatgtgaaag ttggcgacat cgttattttc 300
aacgatggct acggtgtgaa atctgagaag atcgacaatg aagaagtgtt gatcatgtcc 360
gaaagcgaca ttctggcaat tgttgaagcg taatccgcgc acgacactga acatacgaat 420
ttaaggaata aagatcatga aaatcgttct cgttttgtac tccgctggta agcacgccgc 480
cgatgaacca aagttgtatg gttgtatcga aaatgaattg ggtattagac aatggcttga 540
gaagggcggc catgaattgg ttactacatc agacaaagag ggtgaaaact ctgagttaga 600
aaagcacatt cctgacgctg atgtgattat ttccactoca ttccatccag cctacatcac 660
gaaggagaga atccaaaaag ccaagaagct gaagttgttg gtcgttgcgt gtgtcgggtc 720
cgaccacatt gacttggact acattgaaca aaatggccta gatatttcgg tccatagcgt 780
tactggttcc aacgttgttt cagtggctga gcatgtcgtt atgactatat tgaacttgg 840
gagaaacttt gttccagctc acgagcaaat tgtaaccac ggcctgggacg ttgctgccat 900
cgccaaggac gctacgata tcgaaggtaa gaccatcgca acaattggtg ctggaagaat 960
tggttacaga gtcttagaga gacttgtggc tttaaccct aaggaattgt tgtactacga 1020
ctaccaaggt cttccaaaag agccgagga aaaagttggg gccagaagag tcgacactgt 1080
cgaggagctg gttgctcaag ccgatgttgt taccgtcaat gcccactgc acgcaggtac 1140
taagggttta gttaacaagg agcttctgtc caagttcaag aagggtgctt ggttggttaa 1200
cacagccaga ggtgccatct gcaatgctca agatgtcgtt gatgccgtt catctggtca 1260
attgagaggt tacggtgttg acgtctggtt ccctcagcca gctccaaagg accatccatg 1320
gagagatatg agaaacaagt acggatacgg aaacgccatg actcctcatt actcaggtac 1380
cactttggac gccaggtca gatatgccga aggtaccaag aacatcttga actcattcct 1440
taccaagaag tttgactaca gacctcaaga tgtcattott ttgaacggt aqtacaagac 1500
caaggcttat ggtaatgaca aaaaggtgcg ataaggatct gcgcacgaca ctgaacatac 1560
gaatttaagg aataaacata tgcgcgacgt gtttgaaatg atggaccgct atggccacga 1620
gcaggtcatt ttttgcgtc atccgcaaac cgtctcaaa cgcgtcatcg ccttcataa 1680
tacaaccgcg gggcgggctt tgggtggatg ccgcgtgac ccgtatgctt cgacggacga 1740
agccttggag gatgttttgc gttgtccaa aggcattgacc tataaatgca gtctggcgga 1800
tgtggacttt ggcgggggaa aaatggttat catcgccgat ccgaaaaag ataaatcgcc 1860
ggagttgttt cgcgtgatcg gccgttttgt gggcgggtta aacggccgtt tctataccgg 1920
aaccgacatg ggaaccaatc cggaaagattt tgtccatgcc gccagggaat cgaaatcttt 1980
tgcgggattg ccgacatcgt acggcgggaag cggggacaca tccattccca ccgcgctcgg 2040
ggtgtttcac ggaatgcggg ccaccgcccg gtttttatgg gggacggatc agctgaaaag 2100
gcgtgtggtt gccatccaag gactcggcaa ggtgggagag cgcttgttgc agcttttgtt 2160
cgaagtgggg gcttaactga aaattgccga catcgattcg gtgcgatgcg aacagctgaa 2220
agaaaagtat ggcgacaagg tccaattggt ggatgtgaac cggattcaca aggagagttg 2280
cgatattttc tgccttgcg ccaaaggcgg cgtggtcaat gatgacacca ttgacgagtt 2340
ccgttgctcg gccattgtcg gatccgcaa caaccaactg gtggaagacc ggcattgggc 2400
actgcttcaa aaacggagca tttggtatgc acccgattat ctggtgaatg ccggcgggct 2460
gattcaagtg gctgatgaac tggaaaggctt ccatgaagag agagtgcctg ccaaaaccga 2520
agcgatttat gacatggtcc tggatatatt tcaccggcg aaaaatgaga atattaccac 2580
ttgtgaggca ggcgaccgga tcgtgatgga gcgtttgaaa aagttaaccg atattcgccg 2640
gatcttgttg gaggatcccc gcaacagcgc ggagggttac ctcgagccgc ggcggccgcg 2700
aattaattcg ccttagacat gactgttct cagttcaagt tgggcactta cgagaagacc 2760
ggtcttgcta gcccggggtg ggcaagaac tccagcatga gatccccgc ctggaggatc 2820
atccagccg cgctccggaa aacgattccg aagcccaacc ttcatagaa ggcggcggtg 2880
gaatcgaaat ctggtgatg caggttgggc gtgcgttgt cggtcatttc gaacccaga 2940
gtcccgctca gaagaactcg tcaagaaggc gatagaaggc gatgcgctgc gaatcgggag 3000
cgcgatacc gtaaagcacg aggaagcgt cagccattc gccccaagc tcttcagcaa 3060
tatcacgggt agccaacgt atgtcctgat agcgtccgc cacaccagc cggccacagt 3120
cgatgaatcc agaaaagcgg ccattttoca ccatgatatt cggcaagcag gcatcgccgt 3180
gggtcaogac gagatcctcg ccgtcgggca tgcgcgctt gagcctggcg aacagttcgg 3240

Figure 2(b)

ctggcgcgag	cccctgatgc	tcttcgtcca	gatcatcctg	atcgacaaga	ccggcttcca	3300
tccgagtagc	tgctcgctcg	atgcgatgtt	tcgcttggtg	gtcgaatggg	caggtagccg	3360
gatcaagcgt	atgcagccgc	cgcattgcat	cagccatgat	ggatactttc	tcggcaggag	3420
caaggtgaga	tgacaggaga	tcctgccccg	gcacttcgcc	caatagcagc	cagtcccttc	3480
ccgcttcagt	gacaacgtcg	agcacagctg	cgcaaggaaac	gcccgtcgtg	gccagccacg	3540
atagccgcgc	tgccctcgcc	tgagttcat	tcagggcacc	ggacaggctc	gtcttgacaa	3600
aaagaaccgg	gcgccctcgc	gctgacagcc	ggaacacggc	ggcatcagag	cagccgattg	3660
tctgtttgtc	ccagtcatag	ccgaatagcc	tctccaccca	agcggccgga	gaacctgcgt	3720
gcaatccatc	ttgttcaatc	atgcgaaacg	atcctcatcc	tgtctcttga	tcagatcttg	3780
atccccctgc	ccatcagatc	cttggcgcca	agaaagccat	ccagtttact	ttgcagggtt	3840
cccaacctta	ccagaggcgc	ccccagctgg	caattccggt	tcgcttgctg	tccataaaac	3900
cgcccagttc	agctatcgcc	atgtaagccc	actgcaagct	acctgctttc	tctttgcgct	3960
tgcgttttcc	cttgctcaga	tagcccagta	gctgacattc	atccgggggc	agcaccgttt	4020
ctgcggactg	gctttctacg	tgttccgctt	ccttttagcag	cccttgccgc	ctgagtgcct	4080
gcggcagcgt	gaagctagct	tggcaatggc	aacaacgttg	cgaaactat	taactggcga	4140
actacttact	ctagcttccc	ggcaacaatt	aatagactgg	atggaggcgg	ataaagtgtc	4200
aggaccactt	ctgcgctcgc	cccttcggcg	tggtctggtt	attgctgata	aatctggagc	4260
cggtgagcgt	gggtctcgcg	gtatcattgc	agcactgggg	ccagatggta	agccctcccg	4320
tatcgtagtt	atctacacga	cggggagtca	ggcaactatg	gatgaacgaa	atagacagat	4380
cgctgagata	ggtgcctcac	tgattaagca	ttggtaactg	tcagaccaag	tttactcata	4440
tatacttttag	attgatttaa	aacttcattt	ttaattttaa	aggatctagg	tgaagatcct	4500
ttttgataat	ctcatgcatg	acaaaaatcc	cttaacgtga	gttttctgtt	cactgagcgt	4560
cagaccccg	agaaaagatc	aaaggatctt	cttgagatcc	tttttttctg	cgcgtaatct	4620
gctgcttgca	aacaaaaaaa	ccaccgctac	cagcgggtgt	ttgtttgccg	gatcaagaga	4680
taccaactct	ttttccgaag	gtaactggct	tcagcagagc	gcagatacca	aatactgtcc	4740
ttctagtgtg	gccgtagtta	ggccaccact	tcaagaactc	tgtagcaccg	cctacatacc	4800
tcgctctgct	aatcctgtta	ccagtggctg	ctgccagtgg	cgataagtcg	tgtcttaacc	4860
ggtggactca	agacgatagt	taccggataa	ggcgcagcgg	tcgggctgaa	cgggggggtt	4920
gtgcacacag	cccagcttgg	agcgaacgac	ctacaccgaa	ctgagatacc	taacagcgtg	4980
agctatgaga	aagcgccacg	cttcccgaag	ggagaaaagg	ggacagggtat	ccggtaaagc	5040
gcagggtcgg	aacaggagag	cgcacgaggg	agcttccagg	gggaaacgcc	tggatatctt	5100
atagtcctgt	cgggtttcgc	cacctctgac	ttgagcgtcg	attttttgtg	tgctcgtcag	5160
gggggcggag	cctatggaaa	aacgccagca	acgcggcctt	tttacggttc	ctggcctttt	5220
gctggccctt	tgtcacatg	ttctttcctg	cgttatcccc	tgattctgtg	gataaacgta	5280
ttaccgcctt	tgagtgagct	gataccgctc	gccgcagccg	aacgaccgag	cgcagcgagt	5340
cagtgagcga	ggaagcggaa	gagcgctga	tcgggtatct	tctccttacg	catctgtgcg	5400
gtatttcaca	ccgcatagga	attcgcctga	gtcggaaagca	taaaagtgtg	aagcctgggg	5460
tgccataatga	gtgagctaac	tcacatttaa	ttgcgttgcg	ctcactgccc	gctttccagt	5520
cgggaaacct	gtcgtgccag	ctgcattaat	gaatcggcca	acgcgcgggg	agaggcgggt	5580
tgcgtattgg	gcgccagggt	ggtttttctt	ttcaccagtg	agacggggca	cagctgattg	5640
cccttcaccg	cctggccctg	agagagttgc	agcaagcggg	ccacgctggg	ttgccccagc	5700
aggcgaaaat	cctgtttgat	ggtgggtgac	ggcgggatat	aacatgagct	gtcttcggta	5760
tcgtcgtatc	ccactaccga	gatatccgca	ccaacgcgca	gcccggactc	ggtaatggcg	5820
cgcattgcgc	ccagcggcat	ctgatcgttg	gcaaccagca	tcgcagtggg	aacgatgcc	5880
tcattcagca	tttgcatggt	ttgttgaaaa	ccggacatgg	cactccagtc	gccttcccgt	5940
tccgctatcg	gctgaatttg	attgcgagtg	agatatttat	gccagccagc	cagacgcaga	6000
cgcgcggaga	cagaacttaa	tgggcccgt	aacagcgcga	tttgcgtggt	acccaatgcg	6060
accagatgct	ccacgcccag	tcgcgtaccg	tcttcatggg	agaaaataat	actgtttgat	6120
ggtgtctggt	cagagacatc	aagaaataac	gcgggaacat	tagtgcaggc	agcttccaca	6180
gcaatggcat	cctggtcac	cagcggatag	ttaatgatca	gcccactgac	gcgttgccgc	6240
agaagattgt	gcaccgccgc	tttacaggct	tcgacgcgcg	ttcgtttctac	catcgacacc	6300
accacgctgg	caccagtttg	atcggcgcga	gatttaatcg	ccgcgacaat	ttgcgacggc	6360
gcgtgcaggg	ccagactgga	ggtggcaacg	ccaatcagca	acgactgttt	gcccgcagct	6420
tgttgtgcc	cgcggttggg	aatgtaattc	agctccgcc	tcgcgcgttc	cactttttcc	6480

Figure 2(c)

cgcgttttcg	cggaacgtg	gctggcctgg	ttcaccacgc	gggaaacggt	ctgataagag	6540
acaccggcat	actctgcgac	atcgtataac	gttactgggt	tcacattcac	caccctgaat	6600
tgactctctt	ccgggcgcta	tcatgccata	ccgcgaaagg	ttttgcgcca	ttcgatgggtg	6660
tcggcatgc	(SEQ ID NO: 2)					6669

1 2

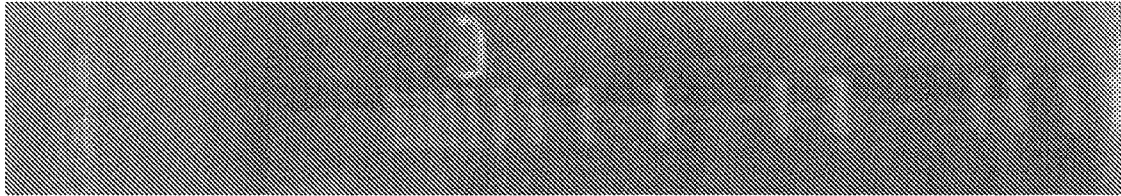


Figure 3

Lane	Sample
1	1Kb Plus Molecular Weight Marker
2	JM110 Plasmid DNA EcoRI digested