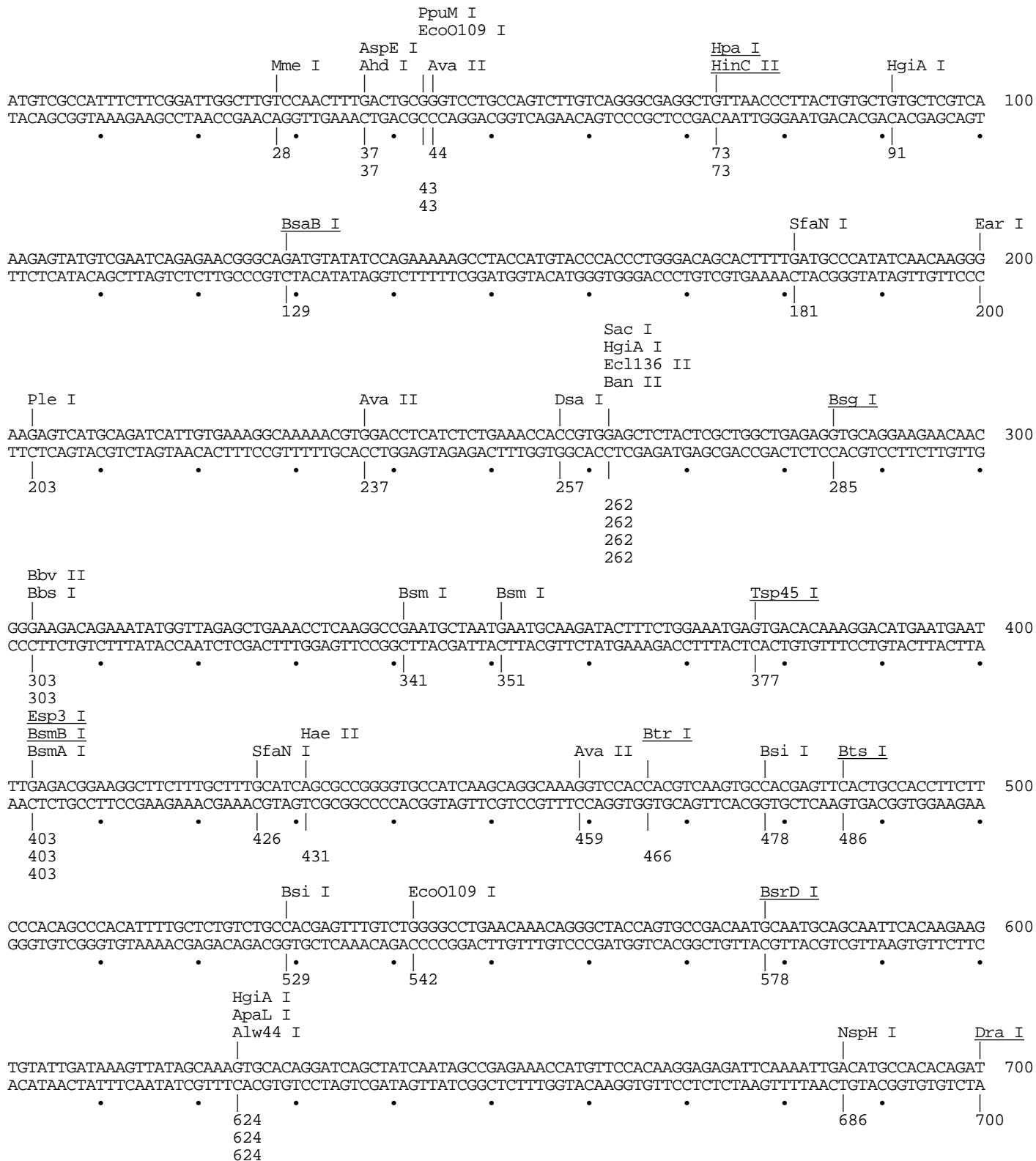
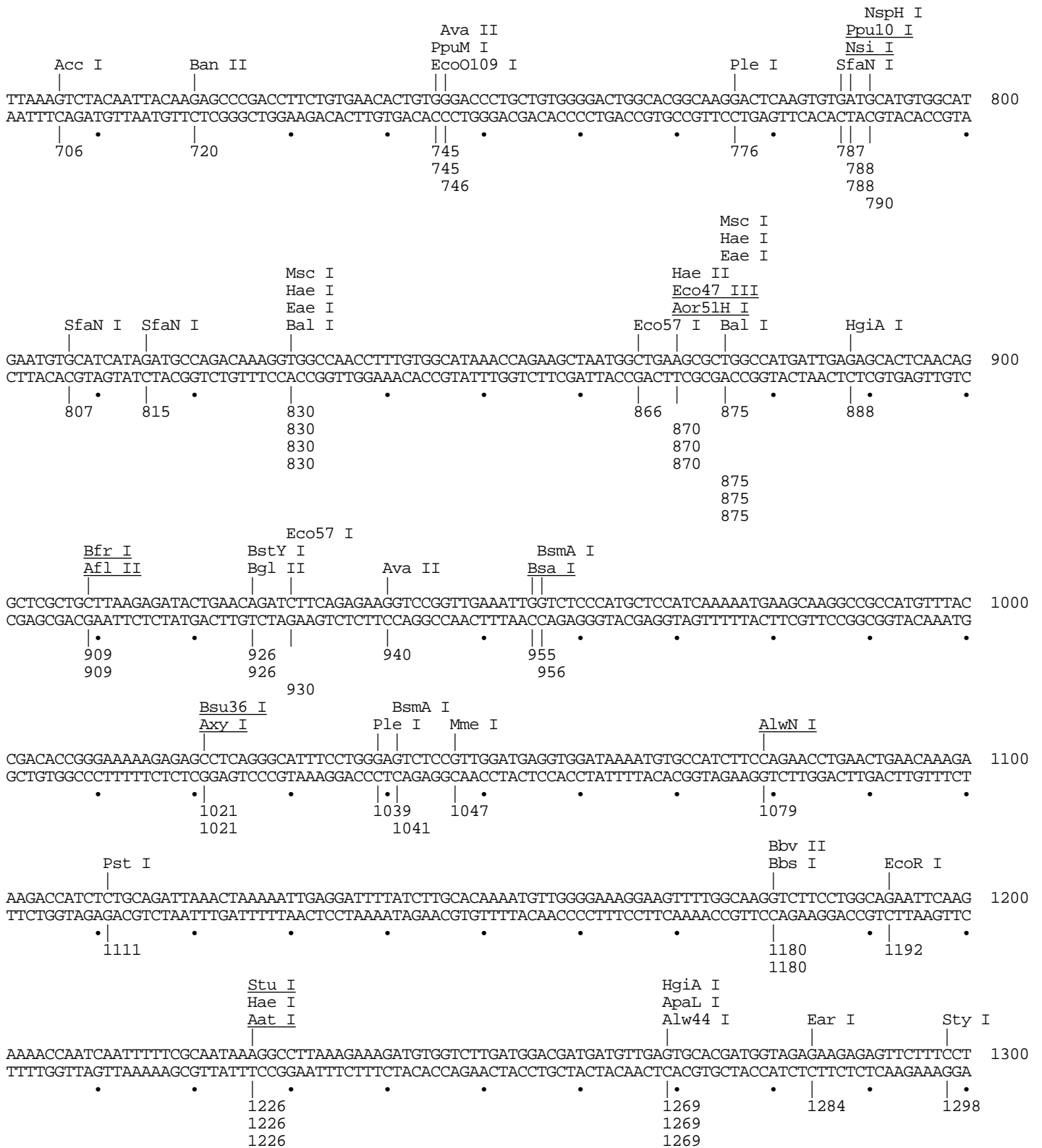


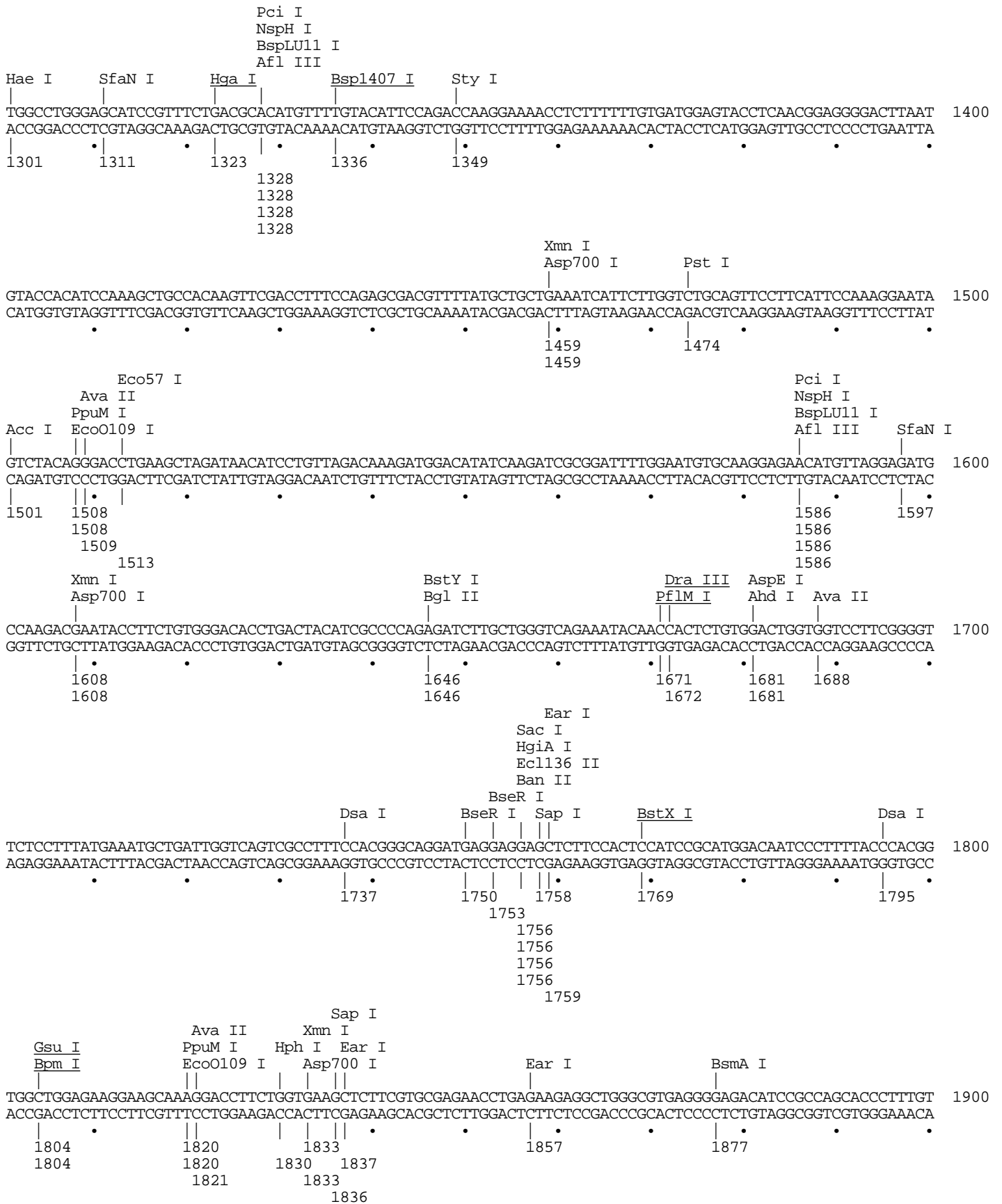
hPKCtheta_ORF -> Full Restriction Map

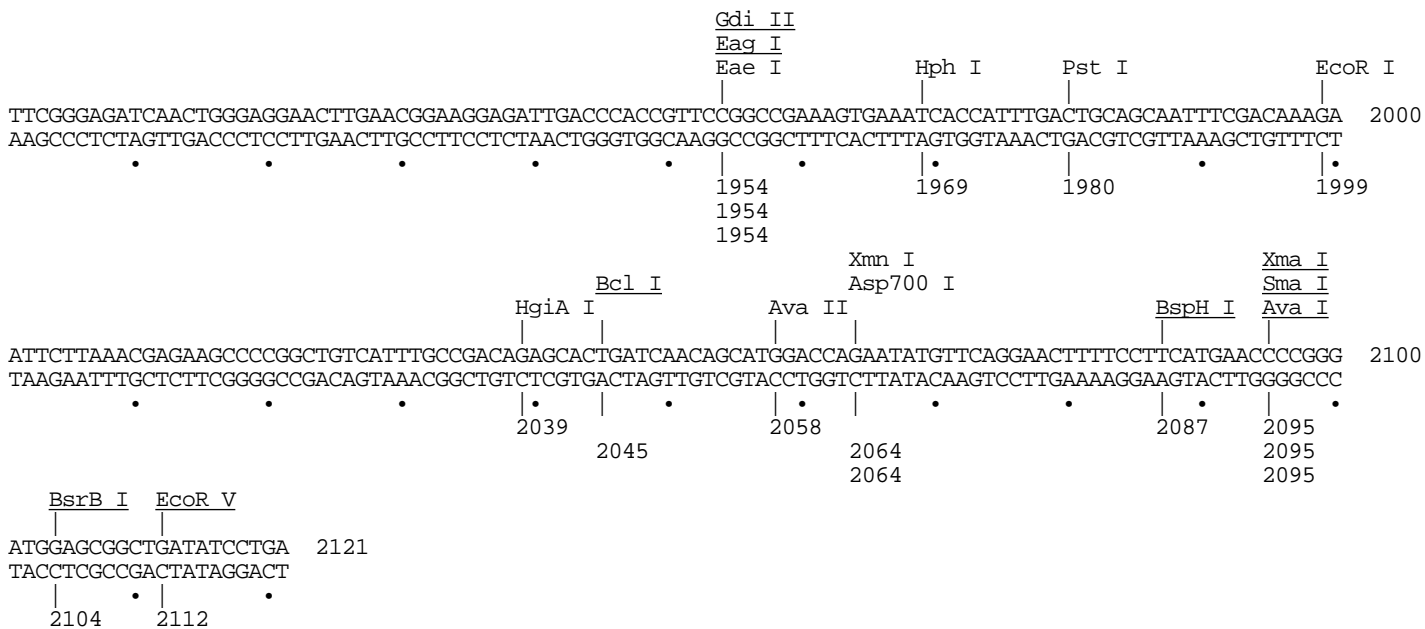
DNA sequence 2121 b.p. ATGTCGCCATTT ... CTGATATCCTGA linear

Positions of Restriction Endonucleases sites (unique sites underlined)









Restriction Endonucleases site usage

Aat I	1	Bbv II	2	BstY I	2	HinD III	-	Psp1406 I	-
Aat II	-	BciV I	-	BstZ17 I	-	Hpa I	1	Pst I	3
Acc65 I	-	Bcl I	1	Bsu36 I	1	Hph I	2	Pvu I	-
Acc I	2	Bfr I	1	Btr I	1	Kas I	-	Pvu II	-
Acl I	-	Bgl I	-	Bts I	1	Kpn I	-	Rsr II	-
Afl II	1	Bgl II	2	Cfr10 I	-	Ksp I	-	Sac I	2
Afl III	2	Bln I	-	Cla I	-	Mfe I	-	Sac II	-
Age I	-	Blp I	-	Dra I	1	Mlu I	-	Sal I	-
Aha II	-	Bpm I	1	Dra III	1	Mme I	2	Sap I	2
Ahd I	2	Bpu1102 I	-	Drd I	-	Msc I	2	Sbf I	-
Alw44 I	2	Bsa I	1	Dsa I	3	Mun I	-	Sca I	-
AlwN I	1	BsaA I	-	Eae I	3	Nae I	-	SfaN I	7
Aor51H I	1	BsaB I	1	Eag I	1	Nar I	-	Sfi I	-
Apa I	-	BseR I	2	Ear I	5	Nco I	-	SgrA I	-
ApaL I	2	Bsg I	1	Ecl136 II	2	Nde I	-	Sma I	1
Asc I	-	Bsi I	2	Eco47 III	1	NgoM I	-	SnaB I	-
Ase I	-	BsiW I	-	Eco57 I	3	Nhe I	-	Spe I	-
Asp700 I	4	Bsm I	2	EcoN I	-	Not I	-	Sph I	-
Asp718	-	BsmA I	4	EcoO109 I	5	Nru I	-	Spl I	-
AspE I	2	BsmB I	1	EcoR I	2	Nsi I	1	Srf I	-
Asp I	-	Bsp120 I	-	EcoR V	1	NspH I	4	Sse8387 I	-
Ava I	1	Bsp1407 I	1	Ehe I	-	Pac I	-	Ssp I	-
Ava II	9	BspE I	-	Esp3 I	1	Paer7 I	-	Stu I	1
Avi I	-	BspH I	1	Esp I	-	Pci I	2	Sty I	2
Avr II	-	BspM I	-	Fse I	-	PflF I	-	Swa I	-
Axy I	1	BspM II	-	Fsp I	-	PflM I	1	Tsp45 I	1
Bal I	2	BspLU11 I	2	Gdi II	1	Ple I	3	Tth111 I	-
BamH I	-	BsrB I	1	Gsu I	1	Pme I	-	Xba I	-
Ban II	3	BsrD I	1	Hae I	4	Pml I	1	Xca I	-
Ban III	-	BssH II	-	Hae II	2	Ppu10 I	1	Xho I	-
Bbe I	-	Bst1107 I	-	Hga I	1	PpuM I	4	Xcm I	-
BbrP I	-	BstB I	-	HgiA I	7	PshA I	-	Xma I	1
Bbs I	2	BstE II	-	HgiE II	-	Psi I	-	Xmn I	4
Bbu I	-	BstX I	1	HinC II	1				

Enzyme	Site	Use	Site position (Fragment length)	Fragment order
Aat I	agg/cct	1	1(1225) 1	1226(896) 2
Afl II	c/ttaag	1	1(908) 2	909(1213) 1
AlwN I	cagnnn/ctg	1	1(1078) 1	1079(1043) 2
Aor51H I	agc/gct	1	1(869) 2	870(1252) 1
Ava I	c/ycgrg	1	1(2094) 1	2095(27) 2
Axy I	cc/tnagg	1	1(1020) 2	1021(1101) 1

Bcl I	t/gatca	1	1(2044)	1	2045(77)	2
Bfr I	c/ttaag	1	1(908)	2	909(1213)	1
Bpm I	ctggag 16/14	1	1(1803)	1	1804(318)	2
Bsa I	ggtctc 1/5	1	1(954)	2	955(1167)	1
BsaB I	gatnn/nnatc	1	1(128)	2	129(1993)	1
Bsg I	gtgcag 16/14	1	1(284)	2	285(1837)	1
BsmB I	cgtctc 1/5	1	1(402)	2	403(1719)	1
Bsp1407 I	t/gtaca	1	1(1335)	1	1336(786)	2
BspH I	t/catga	1	1(2086)	1	2087(35)	2
BsrB I	gagcgg -3/-3	1	1(2103)	1	2104(18)	2
BsrD I	gcaatg 2/0	1	1(577)	2	578(1544)	1
BstX I	ccannnn/ntgg	1	1(1768)	1	1769(353)	2
Bsu36 I	cc/tnagg	1	1(1020)	2	1021(1101)	1
Btr I	cac/gtc	1	1(465)	2	466(1656)	1
Bts I	gcagtg 2/0	1	1(485)	2	486(1636)	1
Dra I	ttt/aaa	1	1(699)	2	700(1422)	1
Dra III	cacnnn/gtgg	1	1(1671)	1	1672(450)	2
Eag I	c/ggccg	1	1(1953)	1	1954(168)	2
Eco47 III	agc/gct	1	1(869)	2	870(1252)	1
EcoR V	gat/atc	1	1(2111)	1	2112(10)	2
Esp3 I	cgtctc 1/5	1	1(402)	2	403(1719)	1
Gdi II	yggccg -5/-1	1	1(1953)	1	1954(168)	2
Gsu I	ctggag 16/14	1	1(1803)	1	1804(318)	2
Hga I	gacgc 5/10	1	1(1322)	1	1323(799)	2
HinC II	gty/rac	1	1(72)	2	73(2049)	1
Hpa I	ggt/aac	1	1(72)	2	73(2049)	1
Nsi I	atgca/t	1	1(787)	2	788(1334)	1
PflM I	ccannnn/ntgg	1	1(1670)	1	1671(451)	2
Ppu10 I	a/tgcat	1	1(787)	2	788(1334)	1
Sma I	ccc/ggg	1	1(2094)	1	2095(27)	2
Stu I	agg/cct	1	1(1225)	1	1226(896)	2
Tsp45 I	/gtsac	1	1(376)	2	377(1745)	1
Xma I	c/ccggg	1	1(2094)	1	2095(27)	2
Acc I	gt/mkac	2	1(705)	2	706(795)	1
Afl III	a/crygt	2	1(1327)	1	1328(258)	3
Ahd I	gacnnn/mngtc	2	1(36)	3	37(1644)	1
Alw44 I	g/tgcac	2	1(623)	3	624(645)	2
ApaL I	g/tgcac	2	1(623)	3	624(645)	2
AspE I	gacnnn/mngtc	2	1(36)	3	37(1644)	1
Bal I	tgg/cca	2	1(829)	2	830(45)	3
Bbs I	gaagac 2/6	2	1(302)	3	303(877)	2
Bbv II	gaagac 2/6	2	1(302)	3	303(877)	2
Bgl II	a/gatct	2	1(925)	1	926(720)	2
BseR I	gaggag 10/8	2	1(1749)	1	1750(3)	3
Bsi I	ctcgtg -5/-1	2	1(477)	2	478(51)	3
Bsm I	gaatgc 1/-1	2	1(340)	2	341(10)	3
BspLU11 I	a/catgt	2	1(1327)	1	1328(258)	3
BstY I	r/gatcy	2	1(925)	1	926(720)	2
Ecl136 II	gag/ctc	2	1(261)	3	262(1494)	1
EcoR I	g/aattc	2	1(1191)	1	1192(807)	2
Hae II	rgcgc/y	2	1(430)	3	431(439)	2
Hph I	ggtga 8/7	2	1(1829)	1	1830(139)	3
Mme I	tccrac 20/18	2	1(27)	3	28(1019)	2
Msc I	tgg/cca	2	1(829)	2	830(45)	3
Pci I	a/catgt	2	1(1327)	1	1328(258)	3
Sac I	gagct/c	2	1(261)	3	262(1494)	1
Sap I	gctcttc 1/4	2	1(1757)	1	1758(78)	3
Sty I	c/cwggg	2	1(1297)	1	1298(51)	3
Ban II	grgcy/c	3	1(261)	4	262(458)	2
Dsa I	c/crygg	3	1756(366)	3	1(256)	3
Eae I	y/ggccr	3	1795(327)	2	1(829)	2
Eco57 I	ctgaag 16/14	3	1954(168)	3	830(45)	4
Ple I	gagtc 4/5	3	1(865)	1	866(64)	4
Pst I	ctgca/g	3	1513(609)	2	1(202)	4
Asp700 I	gaann/nnttc	4	1039(1083)	1	1111(363)	3
BsmA I	gtctc 1/5	4	1(1110)	1	1474(506)	2
Hae I	wgg/ccw	4	1980(142)	4	1(1458)	1
			1833(231)	2	1459(149)	4
			1(402)	3	2064(58)	5
			1041(836)	1	403(553)	2
			1(829)	1	1877(245)	4
					830(45)	5
					875(351)	3

NspH I	rcatg/y	4	1226(75) 4	1301(821) 2	790(538) 2
			1(685) 1	686(104) 5	
			1328(258) 4	1586(536) 3	
PpuM I	rg/gwccy	4	1(42) 5	43(702) 2	745(763) 1
			1508(312) 3	1820(302) 4	
Xmn I	gaann/nnttc	4	1(1458) 1	1459(149) 4	1608(225) 3
			1833(231) 2	2064(58) 5	
Ear I	ctcttc	1/4	5	1(199) 4	200(1084) 1
				1759(78) 5	1284(475) 2
				1837(20) 6	1857(265) 3
EcoO109 I	rg/gnccy	5	1(42) 6	43(499) 2	542(203) 5
			745(763) 1	1508(312) 3	1820(302) 4
HgiA I	gwgcw/c	7	1(90) 7	91(171) 6	262(362) 3
			624(264) 5	888(381) 2	1269(487) 1
			1756(283) 4	2039(83) 8	
SfaN I	gcatc	5/9	7	1(180) 6	181(245) 5
				787(20) 7	426(361) 3
				807(8) 8	815(496) 2
				1311(286) 4	1597(525) 1
Ava II	g/gwcc	9	1(43) 10	44(193) 6	237(222) 4
			459(287) 2	746(194) 5	940(569) 1
			1509(179) 7	1688(133) 8	1821(237) 3
			2058(64) 9		

164 sites found

No Sites found for the following Restriction Endonucleases

Aat II	gacgt/c	Bst1107 I	gta/tac	PaeR7 I	c/tcgag
Acc65 I	g/gtacc	BstB I	tt/cgaa	PflF I	gacn/nngtc
Acl I	aa/cggt	BstE II	g/gtnacc	Pme I	gttt/aaac
Age I	a/ccggt	BstZ17 I	gta/tac	Pml I	cac/gtg
Aha II	gr/cgyc	Cfr10 I	r/ccggy	PshA I	gacnn/nngtc
Apa I	gggcc/c	Cla I	at/cgat	Psi I	tta/taa
Asc I	gg/cgcgcc	Drd I	gacnnnn/nngtc	Psp1406 I	aa/cggt
Ase I	at/taat	EcoN I	cctnn/nnnagg	Pvu I	cgat/cg
Asp718	g/gtacc	Ehe I	ggc/gcc	Pvu II	cag/ctg
Asp I	gacn/nngtc	Esp I	gc/tnagc	Rsr II	cg/gwccg
Avi I	tgc/gca	Fse I	ggccgg/cc	Sac II	ccgc/gg
Avr II	c/ctagg	Fsp I	tgc/gca	Sal I	g/tcgac
BamH I	g/gatcc	HgiE II	accnnnnnnggt	Sbf I	cctgca/gg
Ban III	at/cgat	HinD III	a/agctt	Sca I	agt/act
Bbe I	ggcgc/c	Kas I	g/gcgcc	Sfi I	ggcnnnn/nggcc
BbrP I	cac/gtg	Kpn I	ggtac/c	SgrA I	cr/ccggyg
Bbu I	gcatg/c	Ksp I	ccgc/gg	SnaB I	tac/gta
BciV I	gtatcc	Mfe I	c/aattg	Spe I	a/ctagt
Bgl I	gccnnnn/nggc	Mlu I	a/cgctg	Sph I	gcatg/c
Bln I	c/ctagg	Mun I	c/aattg	Spl I	c/gtacg
Blp I	gc/tnagc	Nae I	gcc/ggc	Srf I	gccc/gggc
Bpu1102 I	gc/tnagc	Nar I	gg/cgcc	Sse8387 I	cctgca/gg
BsaA I	yac/gtr	Nco I	c/catgg	Ssp I	aat/att
BsiW I	c/gtacg	Nde I	ca/tatg	Swa I	attd/aaat
Bsp120 I	g/ggccc	NgoM I	g/ccggc	Tth111 I	gacn/nngtc
BspE I	t/ccgga	Nhe I	g/ctagc	Xba I	t/ctaga
BspM I	acctgc	Not I	gc/ggccgc	Xca I	gta/tac
BspM II	t/ccgga	Nru I	tcg/cga	Xho I	c/tcgag
BssH II	g/cgcg	Pac I	ttaat/taa	Xcm I	ccannnnn/nnmtgg