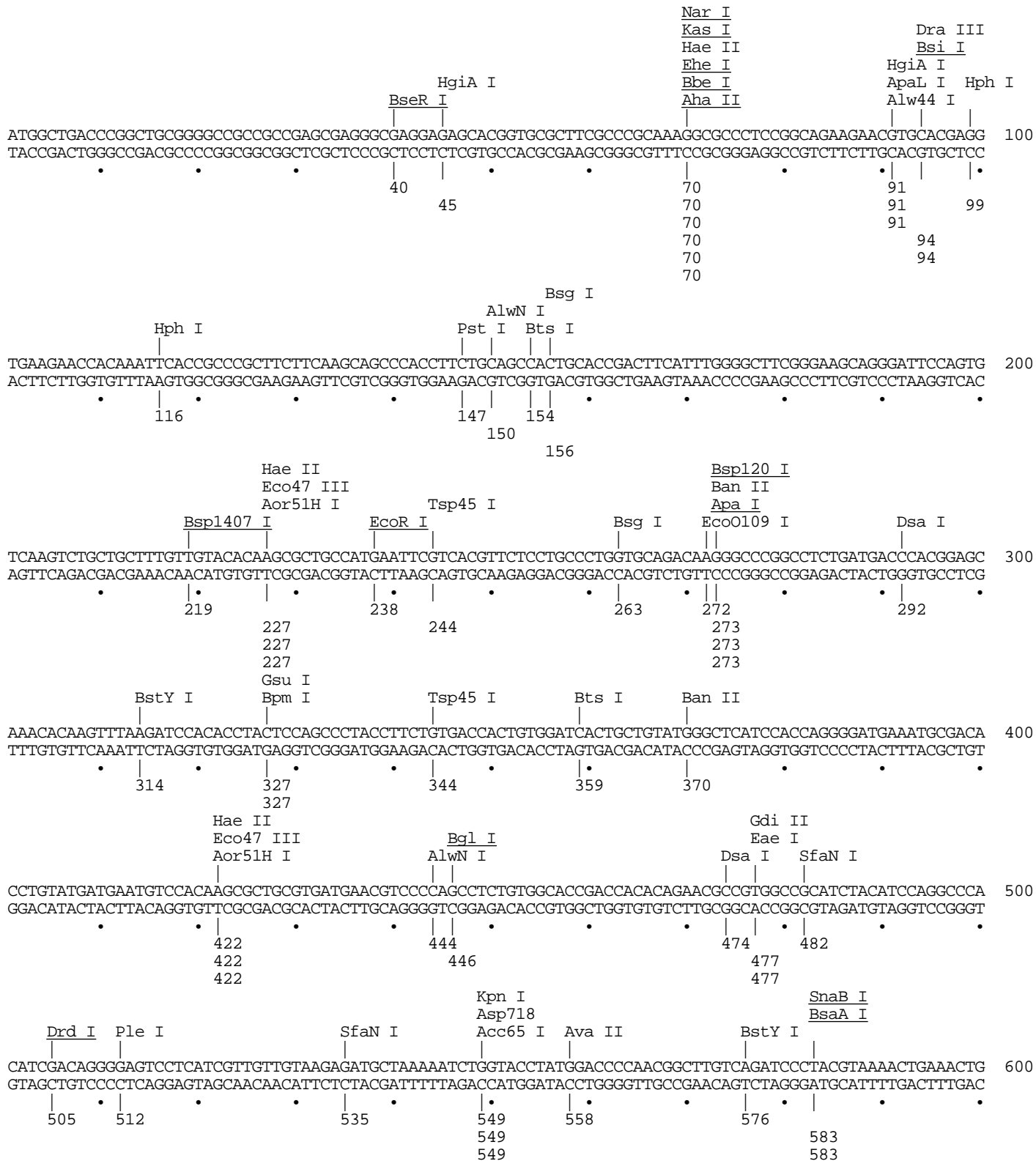


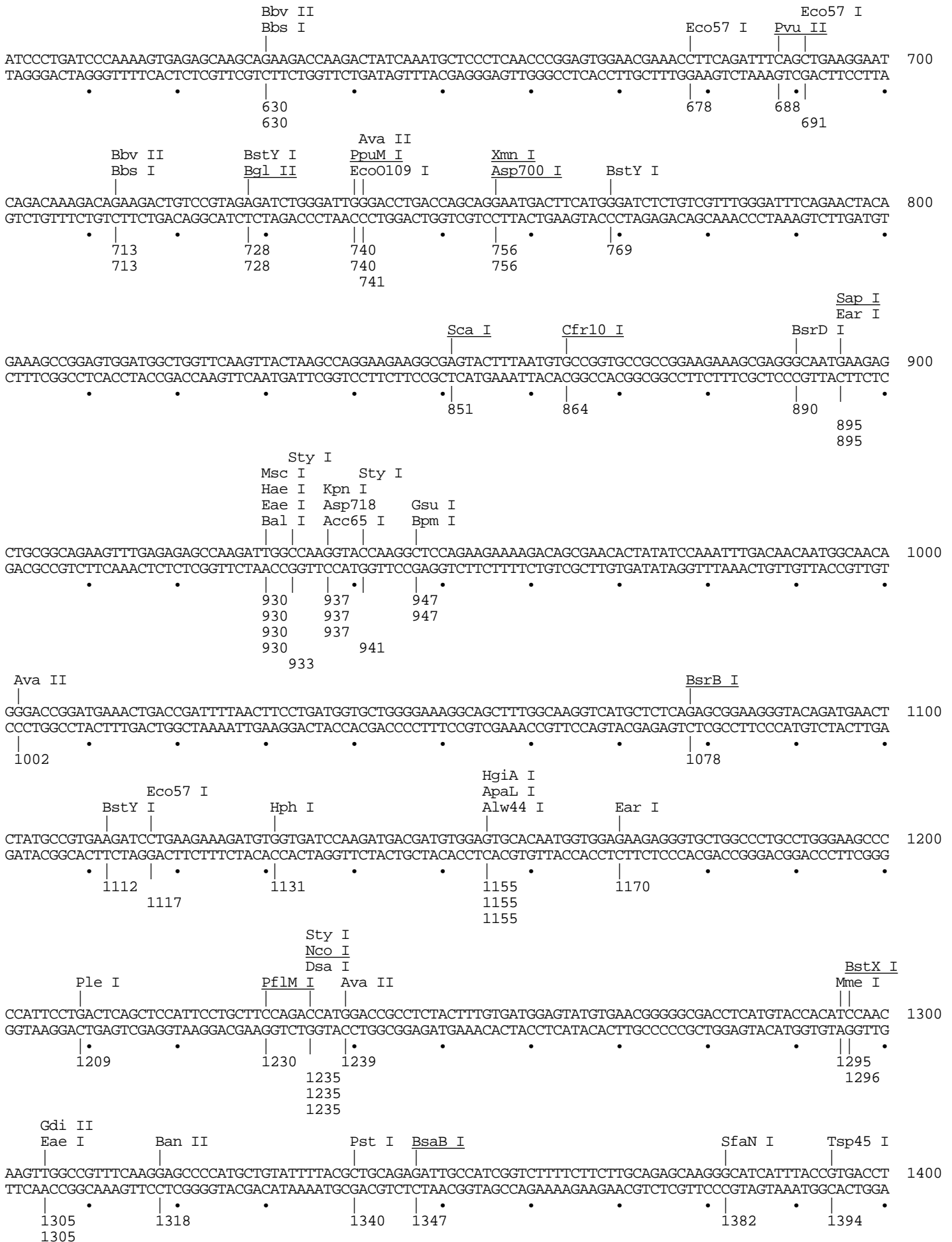
rPKCbeta1_ORF -> Full Restriction Map

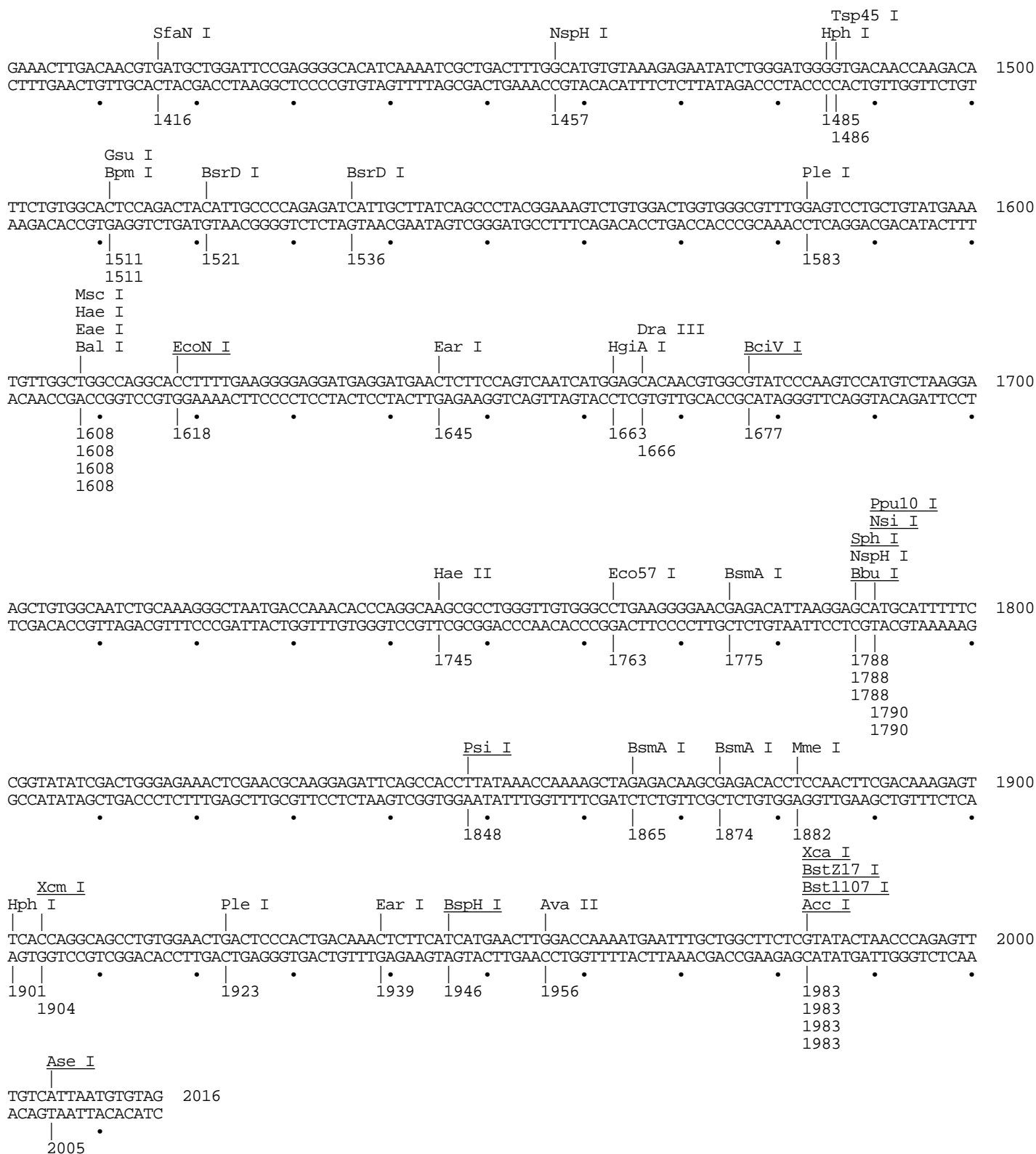
DNA sequence 2016 b.p. ATGGCTGACCCG ... ATTAATGTGTAG linear

Sunday, January 22, 1995 11:31:27 AM
Read from ASCII/Citi2 file "RP58(ORIGINAL).ORF/TEXT"

Positions of Restriction Endonucleases sites (unique sites underlined)







Restriction Endonucleases site usage

Aat I	-	Bbv II	2	BstY I	5	HinD III	-	Psp1406 I	-
Aat II	-	BciV I	1	BstZ17 I	1	Hpa I	-	Pst I	2
Acc65 I	2	Bcl I	-	Bsu36 I	-	Hph I	5	Pvu I	-
Acc I	1	Bfr I	-	Btr I	-	Kas I	1	Pvu II	1
Acl I	-	Bgl I	1	Bts I	2	Kpn I	2	Rsr II	-
Afl II	-	Bgl II	1	Cfr10 I	1	Ksp I	-	Sac I	-
Afl III	-	Bln I	-	Cla I	-	Mfe I	-	Sac II	-

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

Enzyme	Site	Use	Site position (Fragment length)	Fragment order	
Acc I	gt/mkac	1	1(1982) 1	1983(34) 2	
Aha II	gr/cgyc	1	1(69) 2	70(1947) 1	
Apa I	gggcc/c	1	1(272) 2	273(1744) 1	
Ase I	at/taat	1	1(2004) 1	2005(12) 2	
Asp700 I	gaann/nmttc	1	1(755) 2	756(1261) 1	
Bbe I	ggcgc/c	1	1(69) 2	70(1947) 1	
Bbu I	gcatg/c	1	1(1787) 1	1788(229) 2	
BciV I	gtatcc 6/5	1	1(1676) 1	1677(340) 2	
Bgl I	gccnnnn/nggc	1	1(445) 2	446(1571) 1	
Bgl II	a/gatct	1	1(727) 2	728(1289) 1	
BsaA I	yac/gtr	1	1(582) 2	583(1434) 1	
BsaB I	gatnn/nnatc	1	1(1346) 1	1347(670) 2	
BseR I	gaggag 10/8	1	1(39) 2	40(1977) 1	
Bsi I	ctcgtg -5/-1	1	1(93) 2	94(1923) 1	
Bsp120 I	g/ggcc	1	1(272) 2	273(1744) 1	
Bsp1407 I	t/gtaca	1	1(218) 2	219(1798) 1	
BspH I	t/catga	1	1(1945) 1	1946(71) 2	
BsrB I	gagcgg -3/-3	1	1(1077) 1	1078(939) 2	
Bst1107 I	gta/tac	1	1(1982) 1	1983(34) 2	
BstX I	ccannnn/ntgg	1	1(1295) 1	1296(721) 2	
BstZ17 I	gta/tac	1	1(1982) 1	1983(34) 2	
Cfr10 I	r/ccggy	1	1(863) 2	864(1153) 1	
Drd I	gacnnnn/nggtc	1	1(504) 2	505(1512) 1	
EcoN I	cctnn/nnnagg	1	1(1617) 1	1618(399) 2	
EcoR I	g/aattc	1	1(237) 2	238(1779) 1	
Ehe I	ggc/gcc	1	1(69) 2	70(1947) 1	
Kas I	g/gcgc	1	1(69) 2	70(1947) 1	
Nar I	gg/cgcc	1	1(69) 2	70(1947) 1	
Nco I	c/catgg	1	1(1234) 1	1235(782) 2	
Nsi I	atgca/t	1	1(1789) 1	1790(227) 2	
PflM I	ccannnn/ntgg	1	1(1229) 1	1230(787) 2	
Ppu10 I	a/tgcat	1	1(1789) 1	1790(227) 2	
PpuM I	rg/gwccy	1	1(739) 2	740(1277) 1	
Psi I	tta/taa	1	1(1847) 1	1848(169) 2	
Pvu II	cag/ctg	1	1(687) 2	688(1329) 1	
Sap I	gctcttc 1/4	1	1(894) 2	895(1122) 1	
Sca I	agt/act	1	1(850) 2	851(1166) 1	
SnaB I	tac/gta	1	1(582) 2	583(1434) 1	
Sph I	gcatg/c	1	1(1787) 1	1788(229) 2	
Xca I	gta/tac	1	1(1982) 1	1983(34) 2	
Xcm I	ccannnn/nnmttg	1	1(1903) 1	1904(113) 2	
Xmn I	gaann/nmttc	1	1(755) 2	756(1261) 1	
Acc65 I	g/gtacc	2	1(548) 2	549(388) 3	937(1080) 1

Alw44 I	g/tgcac	2	1(90) 3	91(1064) 1	1155(862) 2
AlwN I	cagnnn/ctg	2	1(149) 3	150(294) 2	444(1573) 1
Aor51H I	agc/gct	2	1(226) 2	227(195) 3	422(1595) 1
ApaL I	g/tgcac	2	1(90) 3	91(1064) 1	1155(862) 2
Asp718	g/gtacc	2	1(548) 2	549(388) 3	937(1080) 1
Bal I	tgg/cca	2	1(929) 1	930(678) 2	1608(409) 3
Bbs I	gaagac 2/6	2	1(629) 2	630(83) 3	713(1304) 1
Bbv II	gaagac 2/6	2	1(629) 2	630(83) 3	713(1304) 1
Bsg I	gtgcag 16/14	2	1(155) 2	156(107) 3	263(1754) 1
Bts I	gcagtg 2/0	2	1(153) 3	154(205) 2	359(1658) 1
Dra III	cacnnn/gtg	2	1(93) 3	94(1572) 1	1666(351) 2
Eco47 III	agc/gct	2	1(226) 2	227(195) 3	422(1595) 1
EcoO109 I	rg/gnccy	2	1(271) 3	272(468) 2	740(1277) 1
Gdi II	yggccg -5/-1	2	1(476) 3	477(828) 1	1305(712) 2
Hae I	wgg/ccw	2	1(929) 1	930(678) 2	1608(409) 3
Kpn I	ggtac/c	2	1(548) 2	549(388) 3	937(1080) 1
Mme I	tccrac 20/18	2	1(1294) 1	1295(587) 2	1882(135) 3
Msc I	tgg/cca	2	1(929) 1	930(678) 2	1608(409) 3
NspH I	rcatg/y	2	1(1456) 1	1457(331) 2	1788(229) 3
Pst I	ctgca/g	2	1(146) 3	147(1193) 1	1340(677) 2
Ban II	grgcy/c	3	1(272) 3	273(97) 4	370(948) 1
Bpm I	ctggag 16/14	3	1318(699) 2	1(326) 4	327(620) 1
BsmA I	gtctc 1/5	3	1511(506) 3	1(1774) 1	1775(90) 3
BsrD I	gcaatg 2/0	3	1874(143) 2	1(889) 1	890(631) 2
Dsa I	c/crygg	3	1536(481) 3	1(291) 3	292(182) 4
Gsu I	ctggag 16/14	3	1235(782) 1	1(326) 4	327(620) 1
Sty I	c/cwggg	3	1511(506) 3	1(932) 1	933(8) 4
Eae I	y/ggccr	4	1235(782) 2	1(476) 1	477(453) 2
Ear I	ctcttc 1/4	4	1305(303) 5	1(894) 1	895(275) 4
Eco57 I	ctgaag 16/14	4	1645(294) 3	1(677) 1	678(13) 5
Hae II	rgcgc/y	4	1117(646) 2	1(69) 5	70(157) 4
HgiA I	gwgw/c	4	422(1323) 1	1(44) 5	45(46) 4
Ple I	gagtc 4/5	4	1155(508) 2	1(511) 2	512(697) 1
SfaN I	gcatc 5/9	4	1663(354) 3	1(340) 4	1923(94) 5
Tsp45 I	/gtsac	4	1583(340) 4	1(481) 3	482(53) 4
Ava II	g/gwcc	5	1382(34) 5	1(243) 3	244(100) 4
BstY I	r/gatcy	5	1394(92) 5	1(557) 2	558(183) 5
Hph I	ggtga 8/7	5	1002(237) 4	1(313) 3	314(262) 4
			728(41) 6	1(98) 5	99(17) 6
			1131(354) 3		1485(416) 2
					1901(116) 4

152 sites found

No Sites found for the following Restriction Endonucleases

Aat I	agg/cct	BspLU11 I	a/catgt	Nru I	tcg/cga
Aat II	gacgt/c	BssH II	g/cgcg	Pac I	ttaat/taa
Acl I	aa/cggt	BstB I	tt/cgaa	Paer7 I	c/tcgag
Afl II	c/ttaag	BstE II	g/gtnacc	Pci I	a/catgt
Afl III	a/crygt	Bsu36 I	cc/tnagg	PflF I	gacn/nngtc
Age I	a/cggt	Btr I	cac/gtc	Pme I	gttt/aaac
Ahd I	gacnnn/nngtc	Cla I	at/cgat	Pml I	cac/gtg
Asc I	gg/cgccc	Dra I	ttt/aaa	PshA I	gacnn/nngtc
AspE I	gacnnn/nngtc	Eag I	c/ggccg	Psp1406 I	aa/cggt
Asp I	gacn/nngtc	Ecl136 II	gag/ctc	Pvu I	cgat/cg
Ava I	c/ycgrg	EcoR V	gat/atc	Rsr II	cg/gwccc

Avi I	tgc/gca		Esp3 I	cgtctc	1/5	Sac I	gagct/c
Avr II	c/ctagg		Esp I	gc/tnagc		Sac II	ccgc/gg
Axy I	cc/tnagg		Fse I	ggccgg/cc		Sal I	g/tcgac
BamH I	g/gatcc		Fsp I	tgc/gca		Sbf I	cctgca/gg
Ban III	at/cgat		Hga I	gacgc	5/10	Sfi I	ggccnnnn/nggcc
BbrP I	cac/gtg		HgiE II	accnnnnnnggt		SgrA I	cr/ccggyg
Bcl I	t/gatca		HinC II	gty/rac		Sma I	ccc/ggg
Bfr I	c/ttaag		HinD III	a/agctt		Spe I	a/ctagt
Bln I	c/ctagg		Hpa I	gtt/aac		Spl I	c/gtacg
Blp I	gc/tnagc		Ksp I	ccgc/gg		Srf I	gccc/gggc
Bpu1102 I	gc/tnagc		Mfe I	c/aattg		Sse8387 I	cctgca/gg
Bsa I	ggtctc	1/5	Mlu I	a/cgcgt		Ssp I	aat/att
BsiW I	c/gtacg		Mun I	c/aattg		Stu I	agg/cct
Bsm I	gaatgc	1/-1	Nae I	gcc/ggc		Swa I	attd/aaat
BsmB I	cgtctc	1/5	Nde I	ca/tatg		Tth111 I	gacn/nngtc
BspE I	t/ccgga		NgoM I	g/ccggc		Xba I	t/ctaga
BspM I	acctgc	4/8	Nhe I	g/ctagc		Xho I	c/tcgag
BspM II	t/ccgga		Not I	gc/ggccgc		Xma I	c/ccggg