

(Linear) (Circular) MAPSORT of: Peaw133.Seq check: 311 from: 1 to: 8044

PBR322 with the amp.R region reversed

Mismatch: 0 MinCuts = 1 MaxCuts: 2
With 212 enzymes: *

July 14, 1999 15:14 ..

AatII G_ACGT'C

Cuts at: 7972 7972
Size: 8044

AhdI GACnn_n'nnGTC

Cuts at: 3893 7050 3893
Size: 3157 4887

AlwNI CAG_nnn'CTG

Cuts at: 3337 6582 3337
Size: 3245 4799

ApaI G_GGCC'C

Cuts at: 5363 5363
Size: 8044

BamHI G'GATC_C

Cuts at: 1560 1560
Size: 8044

BclI T'GATC_A

Cuts at: 5166 5166
Size: 8044

BglII A'GATC_T

Cuts at: 3118 3118
Size: 8044

BmgI GkGCCC

Cuts at: 5361 5361
Size: 8044

BsaAI yAC'GTr

Cuts at: 3385 4708 3385
Size: 1323 6721

BsaBI GATnn'nnATC

Cuts at: 2722 3123 2722

Size: 401 7643

BsaXI ACnnnnnCTCC

Cuts at: 361 5811 361
Size: 5450 2594

BspEI T'CCGG_A

Cuts at: 2714 6925 2714
Size: 4211 3833

BspLU11I A'CATG_T

Cuts at: 6166 6166
Size: 8044

BssHII G'CGCG_C

Cuts at: 5563 5563
Size: 8044

BstEII G'GTnAC_C

Cuts at: 5333 5333
Size: 8044

DraI TTT'AAA

Cuts at: 7627 7627
Size: 8044

DraIII CAC_nnn'GTG

Cuts at: 1479 1479
Size: 8044

DrdI GACnn_nn'nnGTC

Cuts at: 4649 6274 4649
Size: 1625 6419

DrdII GAACCA

Cuts at: 3857 4875 3857
Size: 1018 7026

EcoNI CCTnn'n_nnAGG

Cuts at: 1032 1032
Size: 8044

EcoRI G'AATT_C

Cuts at: 5981 6929 5981
Size: 948 7096

EcoRV GAT'ATC

Cuts at: 5602 5602
Size: 8044

HgiEII ACCnnnnnnGGT

Cuts at: 4750 6752 4750
Size: 2002 6042

HpaI GTT'AAC

Cuts at: 4450 5658 4450
Size: 1208 6836

KpnI G_GTAC'C

Cuts at: 1501 1501
Size: 8044

MluI A'CGCG_T

Cuts at: 5152 5152
Size: 8044

MscI TGG'CCA

Cuts at: 2496 4266 2496
Size: 1770 6274

MunI C'AATT_G

Cuts at: 4433 4433
Size: 8044

NheI G'CTAG_C

Cuts at: 3618 3618
Size: 8044

NotI GC'GGCC_GC

Cuts at: 4039 4039
Size: 8044

NruI TCG'CGA

Cuts at: 1288 2024 1288
Size: 736 7308

NsiI A_TGCA'T

Cuts at: 833 1099 833
Size: 266 7778

NspV TT'CG_AA

Cuts at: 183 1523 183
Size: 1340 6704

PinAI A'CCGG_T

Cuts at: 3630 3630
Size: 8044

PpuMI rG'GwC_Cy

Cuts at: 2489 2531 2489
Size: 42 8002

PshAI GACnn'nnGTC

Cuts at: 1766 1766
Size: 8044

SacII CC_GC'GG

Cuts at: 4182 4182
Size: 8044

ScaI AGT'ACT

Cuts at: 7530 7530
Size: 8044

SexAI A'CCwGG_T

Cuts at: 4227 4227
Size: 8044

SgfI GCG_AT'CGC

Cuts at: 947 947
Size: 8044

SmaI CCC'GGG

Cuts at: 1071 1495 1071
Size: 424 7620

SstI G_AGCT'C

Cuts at: 1507 1507
Size: 8044

StuI AGG'CCT

Cuts at: 321 321
Size: 8044

TatI wGTACw

Cuts at: 5960 7530 5960
Size: 1570 6474

Tth1111I GACn'n_nGTC

Cuts at: 4701 4701
Size: 8044

UbaDI GAACnnnnnnTCC

Cuts at: 2939 4173 2939
Size: 1234 6810

XhoI C'TCGA_G

Cuts at: 1343 4148 1343
Size: 2805 5239

XmnI GAAnn'nnTTC

Cuts at: 3085 7649 3085
Size: 4564 3480

Enzymes that do cut and were not excluded:

AatII	AhdI	AlwNI	ApaI	BamHI	BclI	BglII	BmgI
BsaAI	BsaBI	BsaXI	BspEI	BspLU11I	BssHII	BstEII	DraI
DraIII	DrdI	DrdII	EcoNI	EcoRI	EcoRV	HgiEII	HpaI
KpnI	MluI	MscI	MunI	NheI	NotI	NruI	NsiI
NspV	PinAI	PpuMI	PshAI	SacII	ScaI	SexAI	SgfI
SmaI	SstI	StuI	TatI	Tth1111I	UbaDI	XhoI	XmnI

Enzymes that do not cut:

AccI	AflII	AscI	AvrII	BaeI	BplI	Bpu1102I	BsrGI
Bst1107I	Bsu36I	FseI	NcoI	NdeI	PacI	PmeI	PmlI
RleAI	RsrII	SalI	SanDI	SfiI	SgrAI	SnaBI	SpeI
SphI	SrfI	Sse8387I	Sse8647I	SunI	SwaI		

Enzymes excluded; MinCuts: 1 MaxCuts: 2

AceIII	AcI	AflIII	AluI	AlwI	Alw26I	ApaBI	ApaLI
ApoI	AvaI	AvaII	BanI	BanII	BbsI	BbvI	BccI
Bce83I	BcefI	BcgI	BcgI	BfaI	BfiI	BglI	BpmI
Bpu10I	BsaI	BsaHI	BsaJI	BsaWI	BsbI	BscGI	BseRI
BsgI	BsiEI	BsiHKAI	BslI	BsmI	BsmBI	BsmFI	Bsp24I
Bsp24I	Bsp1286I	BspGI	BspMI	BsrI	BsrBI	BsrDI	BsrFI
BssSI	BstXI	BstYI	Cac8I	CjeI	CjeI	CjePI	CjePI
ClaI	CviJI	CviRI	DdeI	DpnI	DsaI	EaeI	EagI
EarI	EciI	Eco47III	Eco57I	Eco0109I	EcoRII	FauI	Fnu4HI
FokI	FspI	GdiII	HaeI	HaeII	HaeIII	HgaI	HhaI
Hin4I	HincII	HindIII	HinfI	HphI	MaeIII	MboII	MmeI

MnlI	MseI	MslI	MspI	MspA1I	MwoI	NarI	NciI
NgoAIV	NlaIII	NlaIV	NspI	Pfl11108I	PflMI	PleI	Psp1406I
PstI	PvuI	PvuII	RcaI	RsaI	SapI	Sau96I	Sau3AI
ScrFI	SfaNI	SfcI	SimI	SspI	StyI	TaiI	TaqI
TaqII	TaqII	TauI	TfiI	ThaI	TseI	Tsp45I	Tsp4CI
Tsp509I	TspRI	Tth111II	VspI	XbaI	XcmI		