

(Linear) (Circular) MAPSORT of: Peaw127.Seq check: 8385 from: 1 to: 7978

PBR322 with the amp.R region reversed

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

July 15, 1999 17:05 ..

AatII G\_ACGT'C

Cuts at: 7906 7906  
Size: 7978

AhdI GACnn\_n'nnGTC

Cuts at: 3827 6984 3827  
Size: 3157 4821

AlwNI CAG\_nnn'CTG

Cuts at: 3271 6516 3271  
Size: 3245 4733

ApaI G\_GGCC'C

Cuts at: 5297 5297  
Size: 7978

BamHI G'GATC\_C

Cuts at: 171 1494 171  
Size: 1323 6655

BclI T'GATC\_A

Cuts at: 5100 5100  
Size: 7978

BglII A'GATC\_T

Cuts at: 3052 3052  
Size: 7978

BmgI GkGCCC

Cuts at: 5295 5295  
Size: 7978

BsaAI yAC'GTr

Cuts at: 3319 4642 3319  
Size: 1323 6655

BsaBI GATnn'nnATC

Cuts at: 2656 3057 2656

Size: 401 7577

BsaXI ACnnnnnCTCC

Cuts at: 1387 5745 1387  
Size: 4358 3620

BspEI T'CCGG\_A

Cuts at: 2648 6859 2648  
Size: 4211 3767

BspLU11I A'CATG\_T

Cuts at: 6100 6100  
Size: 7978

BspMI ACCTGCnnnn'nnnn\_

Cuts at: 2038 3230 2038  
Size: 1192 6786

BssHII G'CGCG\_C

Cuts at: 5497 5497  
Size: 7978

BstEII G'GTnAC\_C

Cuts at: 5267 5267  
Size: 7978

ClaI AT'CG\_AT

Cuts at: 24 494 24  
Size: 470 7508

DraI TTT'AAA

Cuts at: 7561 7561  
Size: 7978

DraIII CAC\_nnn'GTG

Cuts at: 272 272  
Size: 7978

DrdI GACnn\_nn'nnGTC

Cuts at: 4583 6208 4583  
Size: 1625 6353

DrdII GAACCA

Cuts at: 3791 4809 3791  
Size: 1018 6960

EcoNI CCTnn'n\_nnAGG

Cuts at: 715 715  
Size: 7978

EcoRI G'AATT\_C

Cuts at: 5915 6863 5915  
Size: 948 7030

EcoRV GAT'ATC

Cuts at: 5536 5536  
Size: 7978

HgiEII ACCnnnnnnnGGT

Cuts at: 4684 6686 4684  
Size: 2002 5976

HpaI GTT'AAC

Cuts at: 4384 5592 4384  
Size: 1208 6770

KpnI G\_GTAC'C

Cuts at: 247 247  
Size: 7978

MluI A'CGCG\_T

Cuts at: 5086 5086  
Size: 7978

MscI TGG'CCA

Cuts at: 2430 4200 2430  
Size: 1770 6208

MunI C'AATT\_G

Cuts at: 4367 4367  
Size: 7978

NheI G'CTAG\_C

Cuts at: 3552 3552  
Size: 7978

NotI GC'GGCC\_GC

Cuts at: 233 3973 233  
Size: 3740 4238

NruI TCG'CGA

Cuts at: 460 1958 460  
Size: 1498 6480

NsiI A\_TGCA'T

Cuts at: 653 919 653  
Size: 266 7712

NspV TT'CG\_AA

Cuts at: 211 211  
Size: 7978

PinAI A'CCGG\_T

Cuts at: 3564 3564  
Size: 7978

PpuMI rG'GwC\_Cy

Cuts at: 2423 2465 2423  
Size: 42 7936

PshAI GACnn'nnGTC

Cuts at: 1700 1700  
Size: 7978

PstI C\_TGCA'G

Cuts at: 3891 7229 3891  
Size: 3338 4640

PvuI CG\_AT'CG

Cuts at: 803 7354 803  
Size: 6551 1427

SacII CC\_GC'GG

Cuts at: 4116 4116  
Size: 7978

ScaI AGT'ACT

Cuts at: 7464 7464  
Size: 7978

SexAI A'CCwGG\_T

Cuts at: 4161 4161  
Size: 7978

SgfI GCG\_AT'CGC

Cuts at: 803 803  
Size: 7978

SmaI CCC'GGG

Cuts at: 249 677 249  
Size: 428 7550

StuI AGG'CCT

Cuts at: 1427 1427  
Size: 7978

TatI wGTACw

Cuts at: 5894 7464 5894  
Size: 1570 6408

Tth111I GACn'n\_nGTC

Cuts at: 4635 4635  
Size: 7978

UbaDI GAACnnnnnnTCC

Cuts at: 2873 4107 2873  
Size: 1234 6744

XbaI T'CTAG\_A

Cuts at: 192 1483 192  
Size: 1291 6687

XhoI C'TCGA\_G

Cuts at: 401 4082 401  
Size: 3681 4297

XmnI GAAnn'nnTTC

Cuts at: 3019 7583 3019  
Size: 4564 3414

Enzymes that do cut and were not excluded:

AatII	AhdI	AlwNI	ApaI	BamHI	BclI	BglII	BmgI
BsaAI	BsaBI	BsaXI	BspEI	BspLU11I	BspMI	BssHII	BstEII
ClaI	DraI	DraIII	DrdI	DrdII	EcoNI	EcoRI	EcoRV
HgiEII	HpaI	KpnI	MluI	MscI	MunI	NheI	NotI
NruI	NsiI	NspV	PinAI	PpuMI	PshAI	PstI	PvuI
SacII	ScaI	SexAI	SgfI	SmaI	StuI	TatI	Tth111I
UbaDI	XbaI	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	SstI	SunI	SwaI	

Enzymes excluded; MinCuts: 1 MaxCuts: 2

AceIII	AciI	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	BsrI	BsrBI	BsrDI	BsrFI	BssSI
BstXI	BstYI	Cac8I	CjeI	CjeI	CjePI	CjePI	CviJI
CviRI	DdeI	DpnI	DsaI	EaeI	EagI	EarI	EciI
Eco47III	Eco57I	EcoO109I	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	Pfl1108I	PflMI	PleI	Psp1406I	PvuII	RcaI
RsaI	SapI	Sau96I	Sau3AI	ScrFI	SfaNI	SfcI	SimI
SspI	StyI	TaiI	TaqI	TaqII	TaqII	TauI	TfiI
ThaI	TseI	Tsp45I	Tsp4CI	Tsp509I	TspRI	Tth1111I	VspI
XcmI							