

(Circular) MAPSORT of: Peaw135.Seq check: 3436 from: 1 to: 5850

>>>pJS39

Mismatch: 0 MinCuts = 1 MaxCuts: 3
With 212 enzymes: *

December 8, 1999 13:29 ..

AatII G_ACGT'C

Cuts at: 5780 5780
Size: 5850

AccI GT'mk_AC

Cuts at: 953 3238 953
Size: 2285 3565

AflIII A'CryG_T

Cuts at: 1003 1178 1003
Size: 175 5675

AhdI GACnn_n'nnGTC

Cuts at: 4858 4858
Size: 5850

AlwNI CAG_nnn'CTG

Cuts at: 4381 4381
Size: 5850

ApaLI G'TGCA_C

Cuts at: 4279 5525 4279
Size: 1246 4604

AvaI C'yCGr_G

Cuts at: 69 2641 2760 69
Size: 2572 119 3159

Fragments arranged by size:

3159 2572 119

BaeI ACnnnnGTAYC

Cuts at: 987 987
Size: 5850

BamHI G'GATC_C

Cuts at: 2959 2959

Size: 5850

BanII G_rGCy'C

Cuts at: 3060 3074 3060
Size: 14 5836

BclI T'GATC_A

Cuts at: 2172 2216 2485 2172
Size: 44 269 5537

Fragments arranged by size:

5537 269 44

BglIII A'GATC_T

Cuts at: 86 86
Size: 5850

BpmI CTGGAGnnnnnnnnnnnnnnn_nn'

Cuts at: 3418 3972 4928 3418
Size: 554 956 4340

Fragments arranged by size:

4340 956 554

Bpu10I CC'TnA_GC

Cuts at: 382 1191 1803 382
Size: 809 612 4429

Fragments arranged by size:

4429 809 612

BsaI GGTCTCn'nnnn_

Cuts at: 4919 4919
Size: 5850

BsaBI GATnn'nnATC

Cuts at: 593 593
Size: 5850

BsaXI ACnnnnnCTCC

Cuts at: 1932 2603 1932
Size: 671 5179

BsbI CAACAC

Cuts at: 5401 5401

Size: 5850

BsgI GTGCAGnnnnnnnnnnnnnnn_nn'

Cuts at: 2204 2204
Size: 5850

BsmI GAATG_Cn'

Cuts at: 2031 2707 3945 2031
Size: 676 1238 3936

Fragments arranged by size:

3936 1238 676

BsmBI CGTCTCn'nnnn_

Cuts at: 976 976
Size: 5850

BspGI CTGGAC

Cuts at: 1646 3645 3722 1646
Size: 1999 77 3774

Fragments arranged by size:

3774 1999 77

BspMI ACCTGCnnnn'nnnn_

Cuts at: 602 1406 3640 602
Size: 804 2234 2812

Fragments arranged by size:

2812 2234 804

BsrBI CCG'CTC

Cuts at: 5699 5699
Size: 5850

BssHII G'CGCG_C

Cuts at: 2601 2705 2601
Size: 104 5746

BssSI C'ACGA_G

Cuts at: 4138 5522 5829 4138
Size: 1384 307 4159

Fragments arranged by size:

4159 1384 307

Bst1107I GTA'TAC

Cuts at: 954 954
Size: 5850

BstEII G'GTnAC_C

Cuts at: 2302 2680 2302
Size: 378 5472

BstXI CCA_nnnn'nTGG

Cuts at: 2377 2377
Size: 5850

Bsu36I CC'TnA_GG

Cuts at: 2825 2825
Size: 5850

ClaI AT'CG_AT

Cuts at: 54 411 54
Size: 357 5493

DraIII CAC_nnn'GTG

Cuts at: 2819 2819
Size: 5850

DrdI GAC_{nn}nn'nnGTC

Cuts at: 4073 4073
Size: 5850

DrdII GAACCA

Cuts at: 1026 1170 2495 1026
Size: 144 1325 4381

Fragments arranged by size:

4381 1325 144

DsaI C'CryG_G

Cuts at: 209 1509 3113 209
Size: 1300 1604 2946

Fragments arranged by size:

2946 1604 1300

EagI C'GCC_G

Cuts at: 75 3525 75

Size: 3450 2400

EarI CTCTTCn'nnn_

Cuts at: 2696 5653 2696
Size: 2957 2893

EcoNI CCTnn'n_nnAGG

Cuts at: 1850 3212 1850
Size: 1362 4488

EcoRI G'AATT_C

Cuts at: 1 959 1
Size: 958 4892

EcoRV GAT'ATC

Cuts at: 1446 1446
Size: 5850

FspI TGC'GCA

Cuts at: 3944 5080 3944
Size: 1136 4714

HgiEII ACCnnnnnnnGGT

Cuts at: 4551 4551
Size: 5850

HindIII A'AGCT_T

Cuts at: 59 59
Size: 5850

HpaI GTT'AAC

Cuts at: 397 2321 397
Size: 1924 3926

KpnI G_GTAC'C

Cuts at: 69 69
Size: 5850

MluI A'CGCG_T

Cuts at: 1178 1178
Size: 5850

MunI C'AATT_G

Cuts at: 895 895
Size: 5850

NcoI C'CATG_G

Cuts at: 1509 1509
Size: 5850

NdeI CA'TA_TG

Cuts at: 2221 2221
Size: 5850

NheI G'CTAG_C

Cuts at: 80 80
Size: 5850

NotI GC'GGCC_GC

Cuts at: 75 75
Size: 5850

NruI TCG'CGA

Cuts at: 1922 3560 1922
Size: 1638 4212

NsiI A_TGCA'T

Cuts at: 142 2031 142
Size: 1889 3961

NspV TT'CG_AA

Cuts at: 5 2922 5
Size: 2917 2933

Pfl1108I TCGTAG

Cuts at: 3344 4876 3344
Size: 1532 4318

PflMI CCA_nnn'nTGG

Cuts at: 751 3907 3956 751
Size: 3156 49 2645

Fragments arranged by size:

3156 2645 49

PinAI A'CCGG_T

Cuts at: 523 523
Size: 5850

PmlI CAC'GTG

Cuts at: 1004 1004

Size: 5850

PpuMI rG'GwC_Cy

Cuts at: 2584 2584
Size: 5850

PshAI GACnn'nnGTC

Cuts at: 3302 3302
Size: 5850

PstI C_TGCA'G

Cuts at: 5103 5103
Size: 5850

PvuI CG_AT'CG

Cuts at: 2913 5228 2913
Size: 2315 3535

RleAI CCCACAnnnnnnnnnn_nnn'

Cuts at: 884 2039 884
Size: 1155 4695

SacII CC_GC'GG

Cuts at: 212 212
Size: 5850

SalI G'TCGA_C

Cuts at: 3237 3237
Size: 5850

ScaI AGT'ACT

Cuts at: 727 5338 727
Size: 4611 1239

SexAI A'CCwGG_T

Cuts at: 2665 2665
Size: 5850

SgrAI Cr'CCGG_yG

Cuts at: 2994 2994
Size: 5850

SmaI CCC'GGG

Cuts at: 71 71
Size: 5850

SnaBI TAC'GTA

Cuts at: 1879 1879
Size: 5850

SphI G_CATG'C

Cuts at: 3151 3151
Size: 5850

SspI AAT'ATT

Cuts at: 1056 2466 5662 1056
Size: 1410 3196 1244

Fragments arranged by size:

3196 1410 1244

TatI wGTACw

Cuts at: 727 1937 5338 727
Size: 1210 3401 1239

Fragments arranged by size:

3401 1239 1210

UbaDI GAACnnnnnnTCC

Cuts at: 2386 2445 2386
Size: 59 5791

VspI AT'TA_AT

Cuts at: 1326 1636 5030 1326
Size: 310 3394 2146

Fragments arranged by size:

3394 2146 310

XbaI T'CTAG_A

Cuts at: 22 2939 22
Size: 2917 2933

XhoI C'TCGA_G

Cuts at: 2760 2760
Size: 5850

XmnI GAAnn'nnTTC

Cuts at: 1172 5457 1172
Size: 4285 1565

Enzymes that do cut and were not excluded:

AatII	AccI	AflIII	AhdI	AlwNI	ApaLI	AvaI	BaeI
BamHI	BanII	BclI	BglII	BpmI	Bpu10I	BsaI	BsaBI
BsaXI	BsbI	BsgI	BsmI	BsmBI	BspGI	BspMI	BsrBI
BssHII	BssSI	Bst1107I	BstEII	BstXI	Bsu36I	Clal	DraIII
DrdI	DrdII	DsaI	EagI	EarI	EcoNI	EcoRI	EcoRV
FspI	HgiEII	HindIII	HpaI	KpnI	MluI	MunI	NcoI
NdeI	NheI	NotI	NruI	NsiI	NspV	Pfl1108I	PflMI
PinAI	PmlI	PpuMI	PshAI	PstI	PvuI	RleAI	SacII
SalI	ScaI	SexAI	SgrAI	SmaI	SnaBI	SphI	SspI
TatI	UbaDI	VspI	XbaI	XhoI	XmnI		

Enzymes that do not cut:

AflII	ApaI	AscI	AvrII	BmgI	BplI	Bpu1102I	BseRI
BspEI	BspLU11I	BsrGI	FseI	MscI	PacI	PmeI	PvuII
RsrII	SanDI	SapI	SfiI	SgfI	SpeI	SrfI	Sse8387I
Sse8647I	SstI	StuI	SunI	SwaI	Tth111I	XcmI	

Enzymes excluded; MinCuts: 1 MaxCuts: 3

AceIII	AciI	AluI	AlwI	Alw26I	ApaBI	ApoI	AvaII
BanI	BbsI	BbvI	BccI	Bce83I	BcefI	BcgI	BcgI
BfaI	BfiI	BglI	BsaAI	BsaHI	BsaJI	BsaWI	BscGI
BsiEI	BsiHKAI	BslI	BsmFI	Bsp24I	Bsp24I	Bsp1286I	BsrI
BsrDI	BsrFI	BstYI	Cac8I	CjeI	CjeI	CjePI	CjePI
CviJI	CviRI	DdeI	DpnI	DraI	EaeI	EciI	Eco47III
Eco57I	EcoO109I	EcoRII	FauI	Fnu4HI	FokI	GdiII	HaeI
HaeII	HaeIII	HgaI	HhaI	Hin4I	HincII	HinfI	HphI
MaeIII	MboII	MmeI	MnlI	MseI	MslI	MspI	MspAII
MwoI	NarI	NciI	NgoAIV	NlaIII	NlaIV	NspI	PleI
Psp1406I	RcaI	RsaI	Sau96I	Sau3AI	ScrFI	SfaNI	SfcI
SimI	StyI	TaiI	TaqI	TaqII	TaqII	TauI	TfiI
ThaI	TseI	Tsp45I	Tsp4CI	Tsp509I	TspRI	Tth111III	