

(Linear) (Circular) MAPSORT of: Peaw116.Seq check: 4303 from: 1 to: 5850

>>>pJS39

Mismatch: 0 MinCuts = 1 MaxCuts: 3
With 191 enzymes: *

January 26, 1994 13:46 ..

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

AgeI A'CCGG_T

Cuts at: 523 523
Size: 5850

Alw44I G'TGCA_C

Cuts at: 4279 5525 4279
Size: 1246 4604

AlwNI CAG_nnn'CTG

Cuts at: 4381 4381
Size: 5850

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

BsgI GTGCAGnnnnnnnnnnnnnnn_nn'

Cuts at: 2204 2204
Size: 5850

BsiI C'TCGT_G

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

Fragments arranged by size:

4159 1384 307

BsmI GAATG_Cn'

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

Fragments arranged by size:

3936 1238 676

BspGI CTGGAC

Cuts at: 3645 3722 3645
Size: 77 5773

BspMI ACCTGCnnnn'nynn_

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

Fragments arranged by size:

2812 2234 804

BsrBI GAG'CGG

Cuts at: 5699 5699
Size: 5850

BssHII G'CGCG_C

Cuts at: 2601 2705 2601
Size: 104 5746

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 GACnn_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'GGCC_G

Cuts at: 75 3525 75
Size: 3450 2400

Eam1105I GACnn_n'nnGTC

Cuts at: 4858 4858
Size: 5850

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

Esp3I CGTCTCn'nnnn_

Cuts at: 976 976
Size: 5850

FspI TGC'GCA

Cuts at: 3944 5080 3944
Size: 1136 4714

HgiEII ACCnnnnnnGGT

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

PmlI CAC'GTG

Cuts at: 1004 1004
Size: 5850

PshAI GAC_{nn}'nnGTC

Cuts at: 3302 3302
Size: 5850

Psp5II rG'GwC_Cy

Cuts at: 2584 2584
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

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 1645 2939 22
Size: 1623 1294 2933

Fragments arranged by size:

2933 1623 1294

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:

AatII	AccI	AciI	AflIII	AgeI	AluI	AlwI	Alw21I
Alw44I	AlwNI	ApaBI	ApoI	AvaI	AvaII	BaeI	BamHI
BanI	BanII	BbsI	BbvI	BccI	Bce83I	BceFI	BcgI
BcgI	BclI	BfaI	BglI	BglII	BpmI	Bpu10I	BsaI
BsaAI	BsaBI	BsaHI	BsaJI	BsaWI	BscGI	BsgI	BsiI
BsiEI	BslI	BsmI	BsmAI	BsmFI	Bsp24I	Bsp1286I	BspGI
BspMI	BsrI	BsrBI	BsrDI	BsrFI	BssHII	Bst1107I	BstEII
BstXI	BstYI	Bsu36I	Cac8I	Clal	CviJI	CviRI	DdeI
DpnI	DraI	DraIII	DrdI	DrdII	DsaI	EaeI	EagI
Eam1105I	EarI	EciI	Eco47III	Eco57I	EcoNI	EcoO109I	EcoRI
EcoRII	EcoRV	Esp3I	FauI	FokI	FspI	GdiII	HaeI
HaeII	HaeIII	HgaI	HgiEII	HhaI	HincII	HindIII	HinfI
HpaI	HphI	ItaI	KpnI	MaeII	MaeIII	MboII	MluI

MmeI	MnlI	MseI	MslI	MspI	MspA1I	MunI	MwoI
NarI	NciI	NcoI	NdeI	NgoAIV	NheI	NlaIII	NlaIV
NotI	NruI	NsiI	NspI	NspV	Pfl1108I	PflMI	PleI
PmlI	PshAI	Psp5II	Psp1406I	PstI	PvuI	RcaI	RleAI
RsaI	SacII	SalI	Sau96I	Sau3AI	ScaI	ScrFI	SexAI
SfaNI	SfcI	SgrAI	SmaI	SnaBI	SphI	SspI	StyI
TaqI	TaqII	TaqII	TfiI	ThaI	Tsp45I	Tsp509I	Tth111II
VspI	XbaI	XhoI	XmnI				

Enzymes that do not cut:

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

Enzymes excluded; MinCuts: 1 MaxCuts: 3

AciI	AluI	AlwI	Alw21I	ApaBI	ApoI	AvaII	BanI
BbsI	BbvI	BccI	Bce83I	BcefI	BcgI	BcgI	BfaI
BglI	BsaAI	BsaHI	BsaJI	BsaWI	BscGI	BsiEI	BslI
BsmAI	BsmFI	Bsp24I	Bsp1286I	BsrI	BsrDI	BsrFI	BstYI
Cac8I	CviJI	CviRI	DdeI	DpnI	DraI	EaeI	EciI
Eco47III	Eco57I	Eco0109I	EcoRII	FauI	FokI	GdiII	HaeI
HaeII	HaeIII	HgaI	HhaI	HincII	HinfI	HphI	ItaI
MaeII	MaeIII	MboII	MmeI	MnlI	MseI	MslI	MspI
MspA1I	MwoI	NarI	NciI	NgoAIV	NlaIII	NlaIV	NspI
PleI	Psp1406I	RcaI	RsaI	Sau96I	Sau3AI	ScrFI	SfaNI
SfcI	StyI	TaqI	TaqII	TaqII	TfiI	ThaI	Tsp45I
Tsp509I	Tth111II						