

(Linear) (Circular) MAPSORT of: Plh29.Seq check: 6918 from: 1 to: 11675

Mismatch: 0 MinCuts = 1 MaxCuts: 5
With 212 enzymes: *

October 22, 1999 15:59 ..

AatII G_ACGT'C

Cuts at: 3682 3682
Size: 11675

AhdI GACnn_n'nnGTC

Cuts at: 6314 6314
Size: 11675

ApaI G_GGCC'C

Cuts at: 9632 9632
Size: 11675

ApaBI GCA_nnnnn'TGC

Cuts at: 578 599 971 5659 10160 578
Size: 21 372 4688 4501 2093

Fragments arranged by size:

4688 4501 2093 372 21

ApaLI G'TGCA_C

Cuts at: 1837 1952 9855 1837
Size: 115 7903 3657

Fragments arranged by size:

7903 3657 115

AvaI C'yCGr_G

Cuts at: 1516 2959 5776 6022 1516
Size: 1443 2817 246 7169

Fragments arranged by size:

7169 2817 1443 246

BaeI ACnnnnGTAYC

Cuts at: 4064 4064
Size: 11675

BamHI G'GATC_C

Cuts at: 4291 5771 4291
Size: 1480 10195

BanII G_rGCy'C

Cuts at: 1316 2365 5814 9632 1316
Size: 1049 3449 3818 3359

Fragments arranged by size:

3818 3449 3359 1049

BfiI ACTGGG

Cuts at: 2605 4267 8239 9684 9921 2605
Size: 1662 3972 1445 237 4359

Fragments arranged by size:

4359 3972 1662 1445 237

BglI GCCn_nnn'nGGC

Cuts at: 2031 4152 7988 8799 2031
Size: 2121 3836 811 4907

Fragments arranged by size:

4907 3836 2121 811

BmgI GkGCCC

Cuts at: 2177 6886 9630 2177
Size: 4709 2744 4222

Fragments arranged by size:

4709 4222 2744

Bpu1102I GC'TnA_GC

Cuts at: 1285 1285
Size: 11675

BsaAI yAC'GTr

Cuts at: 6249 7661 6249
Size: 1412 10263

BsaBI GATnn'nnATC

Cuts at: 798 2970 6551 798
Size: 2172 3581 5922

Fragments arranged by size:

5922 3581 2172

BsaXI ACnnnnnCTCC

Cuts at: 9180 9180
Size: 11675

BsbI CAACAC

Cuts at: 817 4420 10380 817
Size: 3603 5960 2112

Fragments arranged by size:

5960 3603 2112

BseRI GAGGAGnnnnnnnn_nn'

Cuts at: 4598 11371 11414 4598
Size: 6773 43 4859

Fragments arranged by size:

6773 4859 43

Bsp24I GACnnnnnnTGGnnnnnn_nnnnn'

Cuts at: 1309 9669 10003 11426 1309
Size: 8360 334 1423 1558

Fragments arranged by size:

8360 1558 1423 334

BspEI T'CCGG_A

Cuts at: 6543 7354 6543
Size: 811 10864

BspGI CTGGAC

Cuts at: 10408 11231 10408
Size: 823 10852

BspLU11I A'CATG_T

Cuts at: 1538 1538
Size: 11675

BspMI ACCTGCnnnn'nynn_

Cuts at: 1651 3523 8666 10310 1651
Size: 1872 5143 1644 3016

Fragments arranged by size:

5143 3016 1872 1644

BssHII G'CGCG_C

Cuts at: 2799 9424 2799
Size: 6625 5050

BssSI C'ACGA_G

Cuts at: 3240 11114 3240
Size: 7874 3801

Bst1107I GTA'TAC

Cuts at: 1536 4727 5255 8869 10750 1536
Size: 3191 528 3614 1881 2461

Fragments arranged by size:

3614 3191 2461 1881 528

BstEII G'GTnAC_C

Cuts at: 9653 9653
Size: 11675

BstXI CCA_nnnn'nTGG

Cuts at: 1468 2085 9789 9912 10041 1468
Size: 617 7704 123 129 3102

Fragments arranged by size:

7704 3102 617 129 123

Bsu36I CC'TnA₂GG

Cuts at: 905 4074 5717 6698 905
Size: 3169 1643 981 5882

Fragments arranged by size:

5882 3169 1643 981

ClaI AT'CG₂AT

Cuts at: 3475 5037 3475
Size: 1562 10113

DraIII CAC₂nnn'GTG

Cuts at: 3114 3114
Size: 11675

DrdI GACnn_nn'nnGTC

Cuts at: 2194 6807 2194
Size: 4613 7062

DrdII GAACCA

Cuts at: 3132 4996 6283 10116 3132
Size: 1864 1287 3833 4691

Fragments arranged by size:

4691 3833 1864 1287

EagI C'GGCC_G

Cuts at: 7977 7977
Size: 11675

EarI CTCTTCn'nnn_

Cuts at: 75 4197 5205 10218 11607 75
Size: 4122 1008 5013 1389 143

Fragments arranged by size:

5013 4122 1389 1008 143

Eco47III AGC'GCT

Cuts at: 2466 4352 6608 7931 8143 2466
Size: 1886 2256 1323 212 5998

Fragments arranged by size:

5998 2256 1886 1323 212

EcoNI CCTnn'n_nnAGG

Cuts at: 10417 10417
Size: 11675

EcoO109I rG'GnC_Cy

Cuts at: 4798 6036 6081 6494 4798
Size: 1238 45 413 9979

Fragments arranged by size:

9979 1238 413 45

EcoRI G'AATT_C

Cuts at: 1293 5001 5816 5998 7350 1293
Size: 3708 815 182 1352 5618

Fragments arranged by size:

5618 3708 1352 815 182

EcoRV GAT'ATC

Cuts at: 3188 5410 5740 9389 3188
Size: 2222 330 3649 5474

Fragments arranged by size:

5474 3649 2222 330

FspI TGC'GCA

Cuts at: 4159 4378 6053 4159
Size: 219 1675 9781

Fragments arranged by size:

9781 1675 219

HgiEIII ACCnnnnnnGGT

Cuts at: 834 905 4113 10241 834
Size: 71 3208 6128 2268

Fragments arranged by size:

6128 3208 2268 71

HindIII A'AGCT_T

Cuts at: 289 414 4897 289
Size: 125 4483 7067

Fragments arranged by size:

7067 4483 125

HpaI GTT'AAC

Cuts at: 3251 3875 3251
Size: 624 11051

KpnI G_GTAC'C

Cuts at: 5784 10552 5784
Size: 4768 6907

MluI A'CGCG_T

Cuts at: 1790 2215 2995 9835 10374 1790
Size: 425 780 6840 539 3091

Fragments arranged by size:

6840 3091 780 539 425

MscI TGG'CCA

Cuts at: 4740 6043 7088 4740
Size: 1303 1045 9327

Fragments arranged by size:

9327 1303 1045

MunI C'AATT_G

Cuts at: 16 4612 5190 16
Size: 4596 578 6501

Fragments arranged by size:

6501 4596 578

NarI GG'CG_CC

Cuts at: 9197 9197
Size: 11675

NcoI C'CATG_G

Cuts at: 7050 7050
Size: 11675

NdeI CA'TA_TG

Cuts at: 1342 4664 1342
Size: 3322 8353

NgoAIV G'CCGG_C

Cuts at: 6463 7987 8147 6463
Size: 1524 160 9991

Fragments arranged by size:

9991 1524 160

NheI G'CTAG_C

Cuts at: 7932 10737 7932
Size: 2805 8870

NsiI A_TGCA'T

Cuts at: 603 4670 603
Size: 4067 7608

NspI r_CATG'y

Cuts at: 855 1542 5756 11316 855
Size: 687 4214 5560 1214

Fragments arranged by size:

5560 4214 1214 687

NspV TT'CG_AA

Cuts at: 5373 6823 11474 5373
Size: 1450 4651 5574

Fragments arranged by size:

5574 4651 1450

Pfl1108I TCGTAG

Cuts at: 513 6452 8162 8443 513
Size: 5939 1710 281 3745

Fragments arranged by size:

5939 3745 1710 281

PpuMI rG'GwC_Cy

Cuts at: 6036 6081 6036
Size: 45 11630

PshAI GACnn'nnGTC

Cuts at: 723 6410 8204 8302 723
Size: 5687 1794 98 4096

Fragments arranged by size:

5687 4096 1794 98

Psp1406I AA'CG_TT

Cuts at: 5163 7266 8017 10175 5163
Size: 2103 751 2158 6663

Fragments arranged by size:

6663 2158 2103 751

PvuI CG_AT'CG

Cuts at: 2521 2974 3454 4180 2521
Size: 453 480 726 10016

Fragments arranged by size:

10016 726 480 453

RcaI T'CATG_A

Cuts at: 1040 5581 1040
Size: 4541 7134

RleAI CCCACAnnnnnnnnnn_nnn'

Cuts at: 117 132 1458 4790 117
Size: 15 1326 3332 7002

Fragments arranged by size:

7002 3332 1326 15

SacII CC_GC'GG

Cuts at: 10989 10989
Size: 11675

SalI G'TCGA_C

Cuts at: 7940 10729 7940
Size: 2789 8886

ScaI AGT'ACT

Cuts at: 6938 6938
Size: 11675

SexAI A'CCwGG_T

Cuts at: 8975 8975
Size: 11675

SfcI C'TryA_G

Cuts at: 1426 3909 1426
Size: 2483 9192

SgrAI Cr'CCGG_yG

Cuts at: 10361 10652 10823 10361
Size: 291 171 11213

Fragments arranged by size:

11213 291 171

SmaI CCC'GGG

Cuts at: 5778 5778
Size: 11675

SpeI A'CTAG_T

Cuts at: 4683 4683
Size: 11675

SphI G_CATG'C

Cuts at: 5756 5756
Size: 11675

SspI AAT'ATT

Cuts at: 3071 7043 10313 10683 11575 3071
Size: 3972 3270 370 892 3171

Fragments arranged by size:

3972 3270 3171 892 370

SstI G_AGCT'C

Cuts at: 2365 5814 2365
Size: 3449 8226

StuI AGG'CCT

Cuts at: 5799 5799
Size: 11675

StyI C'CwwG_G

Cuts at: 7050 7050
Size: 11675

SunI C'GTAC_G

Cuts at: 1526 1526
Size: 11675

SwaI ATTT'AAAT

Cuts at: 5146 5146
Size: 11675

TaqII CACCCAnnnnnnnnn_nn'

Cuts at: 2617 7133 8526 9715 9933 2617
Size: 4516 1393 1189 218 4359

Fragments arranged by size:

4516 4359 1393 1189 218

TatI wGTACw

Cuts at: 856 3597 6938 856
Size: 2741 3341 5593

Fragments arranged by size:

5593 3341 2741

Tth1111I GACn'n_nGTC

Cuts at: 6807 10566 6807
Size: 3759 7916

VspI AT'TA_AT

Cuts at: 5942 9093 9152 11561 5942
Size: 3151 59 2409 6056

Fragments arranged by size:

6056 3151 2409 59

XbaI T'CTAG_A

Cuts at: 11579 11579
Size: 11675

XmnI GAAnn'nnTTC

Cuts at: 10793 10793
Size: 11675

Enzymes that do cut and were not excluded:

AatII	AhdI	ApaI	ApaBI	ApaLI	AvaI	BaeI	BamHI
BanII	BfiI	BglI	BmgI	Bpu1102I	BsaAI	BsaBI	BsaXI
BsbI	BseRI	Bsp24I	BspEI	BspGI	BspLU11I	BspMI	BssHII
BssSI	Bst1107I	BstEII	BstXI	Bsu36I	ClaI	DraIII	DrdI
DrdII	EagI	EarI	Eco47III	EcoNI	EcoO109I	EcoRI	EcoRV
FspI	HgiEII	HindIII	HpaI	KpnI	MluI	MscI	MunI
NarI	NcoI	NdeI	NgoAIV	NheI	NsiI	NspI	NspV
Pfl1108I	PpuMI	PshAI	Psp1406I	PvuI	RcaI	RleAI	SacII
SalI	ScaI	SexAI	SfcI	SgrAI	SmaI	SpeI	SphI
SspI	SstI	StuI	StyI	SunI	SwaI	TaqII	TatI
Tth1111I	VspI	XbaI	XmnI				

Enzymes that do not cut:

AflIII	AscI	AvrII	BglIII	BplI	BsaI	BsrGI	FseI
NotI	NruI	PacI	PmeI	PmlI	PstI	RsrII	SanDI
SapI	SfiI	SgfI	SnaBI	SrfI	Sse8387I	Sse8647I	UbaDI
XhoI							

Enzymes excluded; MinCuts: 1 MaxCuts: 5

AccI	AceIII	AciI	AflIII	AluI	AlwI	Alw26I	AlwNI
ApoI	AvaII	BanI	BbsI	BbvI	BccI	Bce83I	BcefI
BcgI	BcgI	BclI	BfaI	BpmI	Bpu10I	BsaHI	BsaJI
BsaWI	BscGI	BsgI	BsiEI	BsiHKAI	BslI	BsmI	BsmBI
BsmFI	Bsp24I	Bsp1286I	BsrI	BsrBI	BsrDI	BsrFI	BstYI
Cac8I	CjeI	CjeI	CjePI	CjePI	CviJI	CviRI	DdeI
DpnI	DraI	DsaI	EaeI	EciI	Eco57I	EcoRII	FauI
Fnu4HI	FokI	GdiII	HaeI	HaeII	HaeIII	HgaI	HhaI
Hin4I	HincII	HinfI	HphI	MaeIII	MboII	MmeI	MnlI
MseI	MslI	MspI	MspAII	MwoI	NciI	NlaIII	NlaIV
PflMI	PinAI	PleI	PvuII	RsaI	Sau96I	Sau3AI	ScrFI
SfaNI	SimI	TaiI	TaqI	TaqII	TauI	TfiI	ThaI
TseI	Tsp45I	Tsp4CI	Tsp509I	TspRI	Tth111III	XcmI	