

pOP5MT

SpeI  
>=====

ATGAATGGATCTCATCACCATCACCATCACCATCACACTAGTATGAAAATCGAAGAAGGT  
90 100 110 120 130 140  
M N G S H H H H H H H T S M K I E E G  
AAACTGGTAATCTGGATTAACGGCGATAAAGGCTATAACGGTCTCGCTGAAGTCGGTAAG  
150 160 170 180 190 200  
K L V I W I N G D K G Y N G L A E V G K  
AAATTCGAGAAAGATAACCGGAATTAAAGTCACCGTTGAGCATCCGGATAAACTGGAAGAG  
210 220 230 240 250 260  
K F E K D T G I K V T V E H P D K L E E  
AAATTCCCACAGGTTGCGGCAACTGGCGATGGCCCTGACATTATCTTCTGGGCACACGAC  
270 280 290 300 310 320  
K F P Q V A A T G D G P D I I F W A H D  
CGCTTTGGTGGCTACGCTCAATCTGGCCTGTTGGCTGAAATCACCCCGGACAAAGCGTTC  
330 340 350 360 370 380  
R F G G Y A Q S G L L A E I T P D K A F  
CAGACAAGCTGTATCCGTTTACCTGGGATGCCGTACGTTACAACGGCAAGCTGATTGCT  
390 400 410 420 430 440  
Q D K L Y P F T W D A V R Y N G K L I A

BglII  
>=====

TACCCGATCGCTGTTGAAGCGTTATCGCTGATTTATAACAAAGATCTGCTGCCGAACCCG  
450 460 470 480 490 500  
Y P I A V E A L S L I Y N K D L L P N P  
CCAAAACTGGGAAGAGATCCCGGCGCTGGATAAAGAAGCTGAAAGCGAAAGGTAAGAGC  
510 520 530 540 550 560  
P K T W E E I P A L D K E L K A K G K S  
GCGCTGATGTTCAACCTGCAAGAACCGTACTTCACCTGGCCGCTGATTGCTGCTGACGGG  
570 580 590 600 610 620  
A L M F N L Q E P Y F T W P L I A A D G  
GGTTATGCGTTCAAGTATGAAAACGGCAAGTACGACATTAAGACGTGGGCGTGGATAAC  
630 640 650 660 670 680  
G Y A F K Y E N G K Y D I K D V G V D N  
GCTGGCGGAAAGCGGGTCTGACCTTCCTGGTTGACCTGATTA AAAACAAACACATGAAT  
690 700 710 720 730 740  
A G A K A G L T F L V D L I K N K H M N  
GCAGACACCGATTACTCCATCGCAGAAGCTGCCTTTAATAAAGGCGAAACAGCGATGACC  
750 760 770 780 790 800  
A D T D Y S I A E A A F N K G E T A M T  
ATCAACGGCCCCTGGGCATGGTCCAACATCGACACCAGCAAAGTGAATTATGGTGTAACG  
810 820 830 840 850 860  
I N G P W A W S N I D T S K V N Y G V T  
GTACTGCCGACCTTCAAGGGTCAACCATCCAAACCGTTTCGTTGGCGTGCTGAGCGCAGGT  
870 880 890 900 910 920  
V L P T F K G Q P S K P F V G V L S A G  
ATTGACGCCGCCAGTCCGAACAAAGAGCTGGCAAAGAGTTCCTCGAAAACATCTGCTG  
930 940 950 960 970 980  
I D A A S P N K E L A K E F L E N Y L L  
ACTGATGAAGGCTCGGAAGCGGTTAATAAAGACAAACCGCTGGGTGCCGTAGCGCTGAAG  
990 1000 1010 1020 1030 1040  
T D E G L E A V N K D K P L G A V A L K  
TCTTACGAGGAAGAGTTGGCGAAAGATCCACGTATTGCCGCCACAATGGAAAACGCCAG

1050 1060 1070 1080 1090 1100  
 S Y E E E L A K D P R I A A T M E N A Q  
  
 AAAGGTGAAATCATGCCGAACATCCCGCAGATGTCCGCTTTCTGGTATGCCGTGCGTACT  
 1110 1120 1130 1140 1150 1160  
 K G E I M P N I P Q M S A F W Y A V R T  
  
 GCGGTGATCAACGCCGCCAGCGGTCTGTCGACTGTCGATGAAGCCCTGAAAGACGCGCAG  
 1170 1180 1190 1200 1210 1220  
 A V I N A A S G R Q T V D E A L K D A Q  
  
 AgeI Sali  
 >===== >=====  
 ACTAATTCGAGCTCGACCGGTAGTGGCACCAGTGGGTCGACAGAAAACCTGTACTTCCAG  
 1230 1240 1250 1260 1270 1280  
 T N S S S T G S G T S G S T E N L Y F Q  
  
 NcoI NotI XhoI  
 >===== =>===== >=====  
 BamHI EcoRI AvrII  
 >===== >===== >=====  
 GGATCCATGGAATTCGCGGCCGCCCTAGGCTCGAGCGGACTGAATGACATTTTTCGAAGCA  
 1290 1300 1310 1320 1330 1340  
 G S M E F A A A L G S S G L N D I F E A  
  
 HindIII  
 >=====  
 CAGAAGATCGAATGGCATGAAGCCTAAGCTTG  
 1350 1360 1370  
 Q K I E W H E A \* - \*

#	Enzymes that cut	Frequency	Isoschizomers
	AgeI	1	
	AvrII	1	
	BamHI	1	
	BglII	1	
	EcoRI	1	
	HindIII	1	
	NcoI	1	
	NotI	1	
	Sali	1	
	SpeI	1	
	XhoI	1	