

pDendra2-B vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	1	49
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	2	1935; 2348
AatI	AGG!CCT	0	
AatII	GACGT!C	1	4055
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	2012
AccII	CG!CG	10	173; 593; 1841; 1843; 1946; 2287; 2868; 3198; 3691; 4023
AccIII	T!CCGGA	1	1218
Acc16I	TGC!GCA	1	3355
Acc36I	ACCTGCNNNN!	0	
Acc36I	!NNNNNNNNGCAGGT	0	
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	5	253; 286; 511; 1688; 3081
AccB7I	CCANNNN!NTGG	2	717; 1454
AccBSI	CCG!CTC	1	1825
AccBSI	GAG!CGG	4	36; 68; 2173; 3974
AceIII	CAGCTCNNNNNNN!	3	1892; 2192; 3432
AceIII	!NNNNNNNNNNGAGCTG	2	1237; 1819
Acil	C!CGC	26	263; 323; 456; 726; 792; 938; 1200; 1564; 1820; 1823; 2080; 2106; 2123; 2285; 2313; 2440; 2459; 2580; 2825; 3196; 3287; 3524; 3689; 3766; 3875; 4021
Acil	G!CGG	20	36; 68; 641; 644; 833; 1658; 1913; 1952; 1962; 2004; 2029; 2067; 2166; 2173; 2194; 2690; 2834; 3478; 3645; 3974
AclI	AA!CGTT	3	1309; 3359; 3732
AclWI	GGATCNNNN!	4	129; 2889; 2986; 3766
AclWI	!NNNNNGATCC	8	122; 729; 879; 2801; 2887; 2985; 3449; 3770
AcoI	Y!GGCCR	4	204; 645; 1487; 3521
AcsI	R!AATTY	2	17; 1222
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	2	577; 2788
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	285; 3800
AcvI	CAC!GTG	1	588
AcyI	GR!CGYC	4	287; 707; 3670; 4052
AdeI	CACNNN!GTG	2	717; 786
AfaI	GT!AC	7	358; 775; 841; 1101; 1639; 2048; 3613
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	13	159; 250; 529; 560; 606; 633; 717; 1454; 1891; 2262; 2280; 2446; 2725
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	1	2240
AgeI	A!CCGGT	0	
AgsI	TTS!AA	9	59; 384; 507; 666; 2709; 3911; 3934; 3944; 3988
AhdI	GACNNN!NNGTC	1	3133
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	9	470; 737; 812; 1397; 1453; 1701; 2266; 2387; 2400
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	325
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	0	
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	0	
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AloI	!NNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	0	
AluI	AG!CT	27	305; 392; 410; 582; 699; 771; 852; 861; 866; 970; 974; 994; 1003; 1122; 1251; 1722; 1833; 1882; 1901; 2182; 2408; 2544; 2801; 3121; 3322; 3422; 3485
AluBI	AG!CT	27	305; 392; 410; 582; 699; 771; 852; 861; 866; 970; 974; 994; 1003; 1122; 1251; 1722; 1833; 1882; 1901; 2182; 2408; 2544; 2801; 3121; 3322; 3422; 3485
AlwI	GGATCNNNN!	4	129; 2889; 2986; 3766
AlwI	!NNNNNGATCC	8	122; 729; 879; 2801; 2887; 2985; 3449; 3770
Alw21I	GWGCW!C	7	185; 332; 782; 2060; 2558; 3719; 3804
Alw26I	GTCTCN!	2	1446; 3970
Alw26I	!NNNNNGAGAC	2	1883; 3194
Alw44I	G!TGCAC	5	181; 328; 2056; 2554; 3800
AlwNI	CAGNNN!CTG	1	2656
Ama87I	C!YCGRG	4	1; 141; 361; 397
Aor13HI	T!CCGGA	1	1218
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	1	2065
ApaLI	G!TGCAC	5	181; 328; 2056; 2554; 3800
ApeKI	G!CWGC	17	458; 582; 630; 696; 699; 1833; 1879; 1976; 2145; 2163; 2582; 2647; 2650; 2856; 3121; 3184; 3550
ApoI	R!AATTY	2	17; 1222
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2364
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	0	
AquI	GCCGNACNNNNNNNNNNNNNNNNNNNN!	0	
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	803
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	125
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	3	375; 501; 2108
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	2	729; 1521
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	2	697; 1489
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	3305
Asi256I	G!ATC	19	122; 128; 156; 219; 735; 885; 2807; 2882; 2893; 2901; 2979; 2991; 3096; 3437; 3455; 3501; 3759; 3776; 3812
AsiGI	A!CCGGT	0	
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	1987
Asp700I	GAANN!NNTTC	1	3732
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	0	
AspEI	GACNNN!NNGTC	1	3133
AspLEI	GCG!C	19	173; 289; 419; 503; 593; 1843; 1946; 1976; 2117; 2150; 2420; 2487; 2587; 2761; 2870; 3263; 3356; 3693; 4025
AspS9I	G!GNCC	11	532; 624; 720; 789; 821; 1764; 3175; 3254; 3271; 3493; 4109
AssI	AGT!ACT	2	1639; 3613
AsuI	TT!CGAA	0	
AsuC2I	CC!SGG	9	142; 143; 343; 942; 1886; 1921; 2620; 3316; 3667
AsuHPI	GGTGANNNNNNNN!	9	777; 969; 1258; 1402; 1470; 1804; 1862; 3619; 3860
AsuHPI	!NNNNNNNTCACC	8	342; 1264; 1458; 1512; 2976; 3203; 3825; 4114
AsuNHI	G!CTAGC	1	970
AvaI	C!YCGRG	4	1; 141; 361; 397
AvaII	G!GWCC	4	720; 821; 3271; 3493
AviII	TGC!GCA	1	3355
AvrII	C!CTAGG	0	
AxyI	CC!TNAGG	0	
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	

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BaeGI	GKGC!C	8	185; 256; 332; 514; 1693; 2060; 2558; 3804
BalI	TGG!CCA	1	1489
BamHI	G!GATCC	1	127
BanI	G!GYRCC	5	253; 286; 511; 1688; 3081
BanII	GRGCY!C	1	569
BanIII	AT!CGAT	0	
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	2	717; 1454
BauI	C!ACGAG	1	4104
BauI	C!TCGTG	2	2413; 3797
BbeI	GGCG!C	1	290
Bbr7I	GAAGACNNNNNN!	1	561
Bbr7I	!NNNNNNNNNNNGTCTTC	1	4106
BbrPI	CAC!GTG	1	588
BbsI	GAAGACNN!	1	556
BbsI	!NNNNNNGTCTTC	1	4111
BbuI	GCATG!C	0	
BbvI	GCAGCNNNNNN!	7	470; 708; 1891; 1988; 2659; 2868; 3562
BbvI	!NNNNNNNNNNNGCTGC	9	569; 617; 686; 1820; 2132; 2150; 2569; 3108; 3171
Bbv12I	GWGCW!C	7	185; 332; 782; 2060; 2558; 3719; 3804
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	460; 916; 3177; 3301; 3588
BccI	!NNNNNGATGG	1	1591
BceAI	ACGGCNNNNNNNNNN!	6	219; 351; 546; 612; 1148; 2742
BceAI	!NNNNNNNNNNNNNGCCGT	3	310; 769; 1573
Bcefl	ACGGCNNNNNNNNNN!	6	219; 351; 546; 612; 1148; 2742
Bcefl	!NNNNNNNNNNNNNGCCGT	3	311; 770; 1574
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	3672
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	1	3638
BciVI	GTATCCNNNNNN!	0	
BciVI	!NNNNNGGATAC	2	2443; 3970
BclI	T!GATCA	1	155
BcnI	CC!SGG	9	142; 143; 343; 942; 1886; 1921; 2620; 3316; 3667
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	1097; 2345
BdaI	!NNNNNNNNNTGANNNNNNTCA	2	1063; 2311
Bfal	C!TAG	6	971; 1719; 1828; 2735; 2988; 3323
BfiI	ACTGGGNNNN!	1	1771
BfiI	!NNNNCCCAGT	2	1981; 3173
BfmI	C!TRYAG	5	405; 795; 2505; 2696; 3374
BfoI	RGCGC!Y	3	290; 2118; 2488
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	0	
BfuI	!NNNNNGGATAC	2	2443; 3970
BfuAI	ACCTGCNNNN!	0	
BfuAI	!NNNNNNNNGCAGGT	0	
BfuCI	!GATC	19	121; 127; 155; 218; 734; 884; 2806; 2881; 2892; 2900; 2978; 2990; 3095; 3436; 3454; 3500; 3758; 3775; 3811
BglI	GCCNNNN!NGGC	2	476; 3253
BglII	A!GATCT	0	
BisI	GC!NGC	30	459; 583; 631; 642; 645; 697; 700; 834; 938; 1564; 1823; 1834; 1880; 1977; 2030; 2146; 2164; 2167; 2285; 2440; 2583; 2648; 2651; 2857; 3122; 3185; 3524; 3551; 3646; 3875
BlnI	C!CTAGG	0	
BlpI	GC!TNAGC	1	862
BlsI	GCN!GC	30	460; 584; 632; 643; 646; 698; 701; 835; 939; 1565; 1824; 1835; 1881; 1978; 2031; 2147; 2165; 2168; 2286; 2441; 2584; 2649; 2652; 2858; 3123; 3186; 3525; 3552; 3647; 3876
BmcAI	AGT!ACT	2	1639; 3613

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Bme18I	G!GWCC	4	720; 821; 3271; 3493
Bme1390I	CC!NGG	18	142; 143; 343; 472; 739; 814; 942; 1399; 1455; 1703; 1886; 1921; 2268; 2389; 2402; 2620; 3316; 3667
BmeRI	GACNN!NNGTC	1	3133
BmeT110I	C!YCGRG	4	1; 141; 361; 397
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	533; 625; 721; 790; 822; 1765; 3176; 3255; 3272; 3494; 4110
BmiI	GGN!NCC	14	129; 255; 288; 513; 534; 566; 1690; 2272; 2311; 3083; 3177; 3218; 3429; 4019
BmrI	ACTGGGNNNNN!	1	1771
BmrI	!NNNNCCCAGT	2	1981; 3173
BmrFI	CC!NGG	18	142; 143; 343; 472; 739; 814; 942; 1399; 1455; 1703; 1886; 1921; 2268; 2389; 2402; 2620; 3316; 3667
BmsI	GCATCNNNNN!	9	452; 737; 1065; 1738; 2041; 2117; 2337; 3389; 3829
BmsI	!NNNNNNNNNGATGC	5	530; 1550; 1906; 2077; 3580
BmtI	GCTAG!C	1	974
BmuI	ACTGGGNNNNN!	1	1771
BmuI	!NNNNCCCAGT	2	1981; 3173
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	1	556
BpiI	!NNNNNNGTCTTC	1	4111
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	0	
BpI	!NNNNNNNGAGNNNNNNCTC	0	
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	493; 655; 1344
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3203
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	1	995
Bpu14I	TT!CGAA	0	
Bpu1102I	GC!TNAGC	1	862
BpuAI	GAAGACNN!	1	556
BpuAI	!NNNNNNGTCTTC	1	4111
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	1744; 2629
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	2331; 2870; 3738
BpuMI	CC!SGG	9	142; 143; 343; 942; 1886; 1921; 2620; 3316; 3667
BpvUI	CGAT!CG	1	3503
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3194
Bsa29I	AT!CGAT	0	
BsaAI	YAC!GTR	2	588; 1994
BsaBI	GATNN!NNATC	1	126
BsaHI	GR!CGYC	4	287; 707; 3670; 4052
BsaJI	C!CNNGG	9	140; 362; 398; 738; 785; 1454; 1523; 1702; 2400
BsaMI	GAATGCN!	2	1215; 1622
BsaMI	G!CATTC	0	
BsaWI	W!CCGGW	4	1218; 2446; 2593; 3424
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	0	
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	0	
BsbI	CAACACNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	1	1936
Bsc4I	CCNNNNN!NNGG	13	159; 250; 529; 560; 606; 633; 717; 1454; 1891; 2262; 2280; 2446; 2725
BscAI	GCATCNNNN!	9	451; 736; 1064; 1737; 2040; 2116; 2336; 3388; 3828
BscAI	!NNNNNNNGATGC	5	533; 1553; 1909; 2080; 3583
Bse1I	ACTGGN!	6	1029; 1766; 2020; 2648; 2661; 3609
Bse1I	C!CAGT	8	888; 1469; 1987; 2773; 3179; 3297; 3340; 3779
Bse8I	GATNN!NNATC	1	126
Bse21I	CC!TNAGG	0	
Bse118I	R!CCGGY	1	3213
BseAI	T!CCGGA	1	1218
BseBI	CC!WGG	9	472; 739; 814; 1399; 1455; 1703; 2268; 2389; 2402
BseCI	AT!CGAT	0	
BseDI	C!CNNGG	9	140; 362; 398; 738; 785; 1454; 1523; 1702; 2400

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bse3DI	GCAATGNN!	2	1241; 3194
Bse3DI	!CATTGC	1	3368
BseGI	GGATGNN!	1	1921
BseGI	!CATCC	7	311; 368; 452; 1215; 3112; 3293; 3580
BseJI	GATNN!NNATC	1	126
BseLI	CCNNNNN!NNGG	13	159; 250; 529; 560; 606; 633; 717; 1454; 1891; 2262; 2280; 2446; 2725
BseMI	GCAATGNN!	2	1241; 3194
BseMI	!CATTGC	1	3368
BseMII	CTCAGNNNNNNNNNN!	6	913; 1457; 1763; 2529; 2938; 3104
BseMII	!NNNNNNNNCTGAG	4	853; 1796; 2041; 3621
BseNI	ACTGGN!	6	1029; 1766; 2020; 2648; 2661; 3609
BseNI	C!CAGT	8	888; 1469; 1987; 2773; 3179; 3297; 3340; 3779
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	115
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	185; 256; 332; 514; 1693; 2060; 2558; 3804
BseXI	GCAGCNNNNNNNN!	7	470; 708; 1891; 1988; 2659; 2868; 3562
BseXI	!NNNNNNNNNNNGCTGC	9	569; 617; 686; 1820; 2132; 2150; 2569; 3108; 3171
BseX3I	C!GGCCG	0	
BseYI	C!CCAGC	2	568; 808
BseYI	G!CTGGG	2	410; 2544
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	715
BsgI	!NNNNNNNNNNNNNNCTGCAC	2	432; 568
Bsh1236I	CG!CG	10	173; 593; 1841; 1843; 1946; 2287; 2868; 3198; 3691; 4023
Bsh1285I	CGRY!CG	3	2580; 3503; 3652
BshFI	GG!CC	20	206; 533; 599; 625; 647; 682; 790; 1135; 1180; 1402; 1489; 1766; 2255; 2266; 2284; 2718; 3176; 3256; 3523; 4110
BshNI	G!GYRCC	5	253; 286; 511; 1688; 3081
BshTI	A!CCGGT	0	
BshVI	AT!CGAT	0	
BsiEI	CGRY!CG	3	2580; 3503; 3652
BsiHKAI	GWGCW!C	7	185; 332; 782; 2060; 2558; 3719; 3804
BsiHKCI	C!YCGRG	4	1; 141; 361; 397
BsiSI	C!CGG	18	142; 342; 824; 941; 1177; 1219; 1347; 1886; 1920; 2447; 2594; 2620; 2810; 3214; 3248; 3315; 3425; 3667
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	13	159; 250; 529; 560; 606; 633; 717; 1454; 1891; 2262; 2280; 2446; 2725
BsIFI	GGGACNNNNNNNNNN!	0	
BsIFI	!NNNNNNNNNNNNNGTCCC	0	
BsmI	GAATGCN!	2	1215; 1622
BsmI	G!CATTC	0	
BsmAI	GTCTCN!	2	1446; 3970
BsmAI	!NNNNNGAGAC	2	1883; 3194
BsmBI	CGTCTCN!	1	1446
BsmBI	!NNNNNGAGACG	1	1883
BsmFI	GGGACNNNNNNNNNN!	0	
BsmFI	!NNNNNNNNNNNNNGTCCC	0	
BsnI	GG!CC	20	206; 533; 599; 625; 647; 682; 790; 1135; 1180; 1402; 1489; 1766; 2255; 2266; 2284; 2718; 3176; 3256; 3523; 4110
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3194
BsoBI	C!YCGRG	4	1; 141; 361; 397
Bsp13I	T!CCGGA	1	1218
Bsp19I	C!CATGG	1	1523
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	2765; 2943
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	805; 4037
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	837; 4069
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	2733; 2911
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	0	
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	19	121; 127; 155; 218; 734; 884; 2806; 2881; 2892; 2900; 2978; 2990; 3095; 3436; 3454; 3500; 3758; 3775; 3811

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Bsp1286I	GDGCH!C	11	185; 256; 332; 514; 569; 782; 1693; 2060; 2558; 3719; 3804
Bsp1407I	T!GTACA	1	839
Bsp1720I	GC!TNAGC	1	862
BspACI	C!CGC	26	263; 323; 456; 726; 792; 938; 1200; 1564; 1820; 1823; 2080; 2106; 2123; 2285; 2313; 2440; 2459; 2580; 2825; 3196; 3287; 3524; 3689; 3766; 3875; 4021
BspACI	G!CGG	20	36; 68; 641; 644; 833; 1658; 1913; 1952; 1962; 2004; 2029; 2067; 2166; 2173; 2194; 2690; 2834; 3478; 3645; 3974
BspCNI	CTCAGNNNNNNNN!	6	912; 1456; 1762; 2528; 2937; 3103
BspCNI	!NNNNNNNCTGAG	4	854; 1797; 2042; 3622
BspDI	AT!CGAT	0	
BspD6I	GACTCNNNN!	4	879; 1721; 2148; 3136
BspD6I	!NNNNNNGAGTC	1	2604
BspEI	T!CCGGA	1	1218
BspFNI	CG!CG	10	173; 593; 1841; 1843; 1946; 2287; 2868; 3198; 3691; 4023
BspHI	T!CATGA	3	2960; 3968; 4073
BspLI	GGN!NCC	14	129; 255; 288; 513; 534; 566; 1690; 2272; 2311; 3083; 3177; 3218; 3429; 4019
BspMI	ACCTGCNNNN!	0	
BspMI	!NNNNNNNNGCAGGT	0	
BspOI	GCTAG!C	1	974
BspPI	GGATCNNNN!	4	129; 2889; 2986; 3766
BspPI	!NNNNNGATCC	8	122; 729; 879; 2801; 2887; 2985; 3449; 3770
BspQI	GCTCTCN!	1	2124
BspQI	!NNNNGAAGAGC	0	
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	0	
BspT107I	G!GYRCC	5	253; 286; 511; 1688; 3081
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3194
BsrI	ACTGGN!	6	1029; 1766; 2020; 2648; 2661; 3609
BsrI	C!CAGT	8	888; 1469; 1987; 2773; 3179; 3297; 3340; 3779
BsrBI	CCG!CTC	1	1825
BsrBI	GAG!CGG	4	36; 68; 2173; 3974
BsrDI	GCAATGNN!	2	1241; 3194
BsrDI	!CATTGC	1	3368
BsrFI	R!CCGGY	1	3213
BsrGI	T!GTACA	1	839
BsrSI	ACTGGN!	6	1029; 1766; 2020; 2648; 2661; 3609
BsrSI	C!CAGT	8	888; 1469; 1987; 2773; 3179; 3297; 3340; 3779
BssAI	R!CCGGY	1	3213
BssECI	C!CNNGG	9	140; 362; 398; 738; 785; 1454; 1523; 1702; 2400
BssHII	G!CGCGC	0	
BssKI	!CCNGG	18	140; 141; 341; 470; 737; 812; 940; 1397; 1453; 1701; 1884; 1919; 2266; 2387; 2400; 2618; 3314; 3665
BssMI	!GATC	19	121; 127; 155; 218; 734; 884; 2806; 2881; 2892; 2900; 2978; 2990; 3095; 3436; 3454; 3500; 3758; 3775; 3811
BssNI	GR!CGYC	4	287; 707; 3670; 4052
BssNAI	GTA!TAC	1	2013
BssSI	C!ACGAG	1	4104
BssSI	C!TCGTG	2	2413; 3797
BssT1I	C!CWWGG	1	1523
Bst6I	CTCTCN!	2	2124; 3928
Bst6I	!NNNNGAAGAG	0	
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	1	2013
BstACI	GR!CGYC	4	287; 707; 3670; 4052
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	1	2064
BstAUI	T!GTACA	1	839
BstBI	TT!CGAA	0	
Bst2BI	C!ACGAG	1	4104
Bst2BI	C!TCGTG	2	2413; 3797
BstBAI	YAC!GTR	2	588; 1994
Bst4CI	ACN!GT	15	276; 1038; 1116; 1149; 1246; 1287; 1390; 1637; 1859; 1894; 2204; 2275; 2745; 3058; 3573

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstC8I	GCN!NGC	12	241; 601; 782; 792; 972; 1200; 1568; 2171; 2257; 2294; 2854; 3245
BstDEI	C!TNAG	12	862; 899; 995; 1443; 1749; 1805; 2050; 2515; 2924; 3090; 3630; 4056
BstDSI	C!CRYGG	2	785; 1523
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	1	157
BstF5I	GGATGNN!	1	1921
BstF5I	!CATCC	7	311; 368; 452; 1215; 3112; 3293; 3580
BstFNI	CG!CG	10	173; 593; 1841; 1843; 1946; 2287; 2868; 3198; 3691; 4023
BstH2I	RGCGC!Y	3	290; 2118; 2488
BstHHI	GCG!C	19	173; 289; 419; 503; 593; 1843; 1946; 1976; 2117; 2150; 2420; 2487; 2587; 2761; 2870; 3263; 3356; 3693; 4025
BstKTI	GAT!C	19	124; 130; 158; 221; 737; 887; 2809; 2884; 2895; 2903; 2981; 2993; 3098; 3439; 3457; 3503; 3761; 3778; 3814
BstMAI	GTCTCN!	2	1446; 3970
BstMAI	!NNNNNGAGAC	2	1883; 3194
BstMBI	!GATC	19	121; 127; 155; 218; 734; 884; 2806; 2881; 2892; 2900; 2978; 2990; 3095; 3436; 3454; 3500; 3758; 3775; 3811
BstMCI	CGRY!CG	3	2580; 3503; 3652
BstMWI	GCNNNNN!NNGC	19	33; 416; 455; 467; 509; 588; 749; 777; 833; 858; 976; 1000; 1563; 2064; 2114; 2179; 2293; 2865; 3253
BstNI	CC!WGG	9	472; 739; 814; 1399; 1455; 1703; 2268; 2389; 2402
BstNSI	RCATG!Y	3	171; 1879; 2244
BstOI	CC!WGG	9	472; 739; 814; 1399; 1455; 1703; 2268; 2389; 2402
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	18	140; 141; 341; 470; 737; 812; 940; 1397; 1453; 1701; 1884; 1919; 2266; 2387; 2400; 2618; 3314; 3665
BstSFI	C!TRYAG	5	405; 795; 2505; 2696; 3374
BstSLI	GKGC!C	8	185; 256; 332; 514; 1693; 2060; 2558; 3804
BstSNI	TAC!GTA	0	
BstUI	CG!CG	10	173; 593; 1841; 1843; 1946; 2287; 2868; 3198; 3691; 4023
Bst2UI	CC!WGG	9	472; 739; 814; 1399; 1455; 1703; 2268; 2389; 2402
BstVII	GCAGC!NNNNNNN!	7	470; 708; 1891; 1988; 2659; 2868; 3562
BstVII	!NNNNNNNNNNNGCTGC	9	569; 617; 686; 1820; 2132; 2150; 2569; 3108; 3171
BstV2I	GAAGACNN!	1	556
BstV2I	!NNNNNNGTCTTC	1	4111
BstXI	CCANNNNN!NTGG	1	690
BstX2I	R!GATCY	9	127; 734; 884; 2881; 2892; 2978; 2990; 3758; 3775
BstYI	R!GATCY	9	127; 734; 884; 2881; 2892; 2978; 2990; 3758; 3775
BstZI	C!GGCCG	0	
BstZ17I	GTA!TAC	1	2013
BsuI	GTATCCNNNNNN!	0	
BsuI	!NNNNNNGGATAC	2	2443; 3970
Bsu15I	AT!CGAT	0	
Bsu36I	CC!TNAGG	0	
BsuRI	GG!CC	20	206; 533; 599; 625; 647; 682; 790; 1135; 1180; 1402; 1489; 1766; 2255; 2266; 2284; 2718; 3176; 3256; 3523; 4110
BsuTUI	AT!CGAT	0	
BtgI	C!CRYGG	2	785; 1523
BtgZI	GCGATGNNNNNNNNN!	1	1658
BtgZI	!NNNNNNNNNNNNNCATCGC	1	1301
BthCI	GCNG!C	30	461; 585; 633; 644; 647; 699; 702; 836; 940; 1566; 1825; 1836; 1882; 1979; 2032; 2148; 2166; 2169; 2287; 2442; 2585; 2650; 2653; 2859; 3124; 3187; 3526; 3553; 3648; 3877
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	1	3533
BtsI	!CACTGC	1	3553
BtsCI	GGATGNN!	1	1921
BtsCI	!CATCC	7	311; 368; 452; 1215; 3112; 3293; 3580
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	0	
BveI	!NNNNNNNNGCAGGT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cac8I	GCN!NGC	12	241; 601; 782; 792; 972; 1200; 1568; 2171; 2257; 2294; 2854; 3245
CaiI	CAGNNN!CTG	1	2656
CciI	T!CATGA	3	2960; 3968; 4073
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	4	732; 1060; 1319; 3384
CdiI	C!GATG	2	1644; 3785
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	2029
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	1	2292
CelII	GC!TNAGC	1	862
CfoI	GCG!C	19	173; 289; 419; 503; 593; 1843; 1946; 1976; 2117; 2150; 2420; 2487; 2587; 2761; 2870; 3263; 3356; 3693; 4025
CfrI	Y!GGCCR	4	204; 645; 1487; 3521
Cfr9I	C!CCGGG	1	141
Cfr10I	R!CCGGY	1	3213
Cfr13I	G!GNCC	11	532; 624; 720; 789; 821; 1764; 3175; 3254; 3271; 3493; 4109
Cfr42I	CCGC!GG	0	
ChaI	GATC!	19	125; 131; 159; 222; 738; 888; 2810; 2885; 2896; 2904; 2982; 2994; 3099; 3440; 3458; 3504; 3762; 3779; 3815
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	673; 838; 2086; 2292; 2847; 4070
CjeI	!NNNNNNNNNACNNNNNNNTGG	4	895; 2733; 2811; 2911
CjeI	ACNNNNNTGGNNNNNNNNNNNNNNNN!	4	929; 2767; 2845; 2945
CjeI	!NNNNNNNNCCANNNNNNGT	6	639; 804; 2052; 2258; 2813; 4036
CjePI	CCANNNNNNTCNNNNNNNNNNNNNNNN!	3	838; 2798; 4070
CjePI	!NNNNNNNGANNNNNNNTGG	4	2733; 2911; 3031; 3503
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNNNN!	4	2766; 2944; 3064; 3536
CjePI	!NNNNNNNCCANNNNNNNNTC	3	805; 2765; 4037
Clal	AT!CGAT	0	
CpoI	CG!GWCCG	0	
CseI	GACGCNNNNN!	3	715; 2351; 2929
CseI	!NNNNNNNNNNGCGTC	2	1935; 3659
CsiI	A!CCWGGT	0	
CspI	CG!GWCCG	0	
Csp6I	G!TAC	7	357; 774; 840; 1100; 1638; 2047; 3612
Csp45I	TT!CGAA	0	
CspAI	A!CCGGT	0	
CspCI	CAANNNNGTGGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	3	185; 305; 2119
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	1	3467
CviAII	C!ATG	19	132; 168; 186; 423; 621; 1294; 1524; 1585; 1606; 1876; 1981; 2241; 2961; 3452; 3462; 3540; 3576; 3969; 4074
CviJI	RG!CY	71	206; 243; 305; 392; 404; 410; 470; 533; 567; 582; 599; 625; 647; 682; 699; 771; 790; 800; 812; 852; 861; 866; 970; 974; 994; 1003; 1122; 1135; 1180; 1251; 1402; 1447; 1489; 1601; 1722; 1748; 1766; 1833; 1882; 1901; 1934; 1979; 2019; 2163; 2182; 2255; 2266; 2284; 2310; 2408; 2544; 2549; 2574; 2653; 2718; 2729; 2772; 2801; 3121; 3164; 3176; 3217; 3243; 3247; 3256; 3322; 3412; 3422; 3485; 3523; 4110
CviKI-1	RG!CY	71	206; 243; 305; 392; 404; 410; 470; 533; 567; 582; 599; 625; 647; 682; 699; 771; 790; 800; 812; 852; 861; 866; 970; 974; 994; 1003; 1122; 1135; 1180; 1251; 1402; 1447; 1489; 1601; 1722; 1748; 1766; 1833; 1882; 1901; 1934; 1979; 2019; 2163; 2182; 2255; 2266; 2284; 2310; 2408; 2544; 2549; 2574; 2653; 2718; 2729; 2772; 2801; 3121; 3164; 3176; 3217; 3243; 3247; 3256; 3322; 3412; 3422; 3485; 3523; 4110
CviQI	G!TAC	7	357; 774; 840; 1100; 1638; 2047; 3612
DdeI	C!TNAG	12	862; 899; 995; 1443; 1749; 1805; 2050; 2515; 2924; 3090; 3630; 4056
DinI	GGC!GCC	1	288
DpnI	GA!TC	19	123; 129; 157; 220; 736; 886; 2808; 2883; 2894; 2902; 2980; 2992; 3097; 3438; 3456; 3502; 3760; 3777; 3813
DpnII	!GATC	19	121; 127; 155; 218; 734; 884; 2806; 2881; 2892; 2900; 2978; 2990; 3095; 3436; 3454; 3500; 3758; 3775; 3811
DraI	TTT!AAA	5	1142; 1481; 2999; 3018; 3710

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DraII	RG!GNCCY	1	4109
DraIII	CACNNN!GTG	2	717; 786
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	1	380
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCTTG	1	2684
DrdI	GACNNN!NNGTC	2	1935; 2348
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	1	332
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	1	3133
DseDI	GACNNN!NNGTC	2	1935; 2348
EaeI	Y!GGCCR	4	204; 645; 1487; 3521
EagI	C!GGCCG	0	
Eam1104I	CTCTCN!	2	2124; 3928
Eam1104I	!NNNNGAAGAG	0	
Eam1105I	GACNNN!NNGTC	1	3133
EarI	CTCTCN!	2	2124; 3928
EarI	!NNNNGAAGAG	0	
EciI	GGCGGANNNNNNNNNNNN!	0	
EciI	!NNNNNNNNNTCCGCC	4	1809; 2302; 2448; 3276
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	0	
Eco24I	GRGCY!C	1	569
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	3194
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	720; 821; 3271; 3493
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	0	
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	2	577; 2788
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	285; 3800
Eco72I	CAC!GTG	1	588
Eco81I	CC!TNAGG	0	
Eco88I	C!YCGRG	4	1; 141; 361; 397
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	1	1523
Eco147I	AGG!CCT	0	
EcoHI	!CCSGG	9	140; 141; 341; 940; 1884; 1919; 2618; 3314; 3665
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	5	493; 577; 655; 1344; 2788
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	285; 3203; 3800
EcoNI	CCTNN!NNNAGG	1	157
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4109
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	9	470; 737; 812; 1397; 1453; 1701; 2266; 2387; 2400
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	1	1523
EcoT22I	ATGCA!T	0	
EcoT38I	GRGCY!C	1	569
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	1	288
EheI	GGC!GCC	1	288
ErhI	C!CWWGG	1	1523
EsaBC3I	TC!GA	7	3; 222; 432; 732; 1755; 2341; 3785
Esp3I	CGTCTCN!	1	1446
Esp3I	!NNNNNGAGACG	1	1883
FaeI	CATG!	19	135; 171; 189; 426; 624; 1297; 1527; 1588; 1609; 1879; 1984; 2244; 2964; 3455; 3465; 3543; 3579; 3972; 4077
Fail	YA!TR	51	12; 49; 115; 133; 169; 187; 424; 622; 1031; 1045; 1106; 1231; 1260; 1295; 1363; 1365; 1432; 1495; 1525; 1538; 1586; 1607; 1877; 1982; 2013; 2027; 2063; 2065; 2242; 2306; 2379; 2684; 2962; 3034; 3036; 3038; 3118; 3409; 3453; 3463; 3541; 3547; 3560; 3577; 3643; 3698; 3919; 3970; 3982; 4075; 4088
FalI	AAGNNNNCTTNNNNNNNNNNNN!	1	408
FalI	!NNNNNNNNAAGNNNNCTT	1	376

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FaqI	GGGACNNNNNNNNNN!	0	
FaqI	!NNNNNNNNNNNNNGTCCC	0	
FatI	!CATG	19	131; 167; 185; 422; 620; 1293; 1523; 1584; 1605; 1875; 1980; 2240; 2960; 3451; 3461; 3539; 3575; 3968; 4073
FauI	CCCGCNNNN!	2	799; 1207
FauI	!NNNNNNGCGGG	2	1651; 1945
FauNDI	CA!TATG	1	2063
FbaI	T!GATCA	1	155
FblI	GT!MKAC	1	2012
FmuI	GGNC!C	11	535; 627; 723; 792; 824; 1767; 3178; 3257; 3274; 3496; 4112
Fnu4HI	GC!NGC	30	459; 583; 631; 642; 645; 697; 700; 834; 938; 1564; 1823; 1834; 1880; 1977; 2030; 2146; 2164; 2167; 2285; 2440; 2583; 2648; 2651; 2857; 3122; 3185; 3524; 3551; 3646; 3875
FokI	GGATGNNNNNNNN!	1	1928
FokI	!NNNNNNNNNNNNNCATCC	7	298; 355; 439; 1202; 3099; 3280; 3567
FriOI	GRGCY!C	1	569
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3355
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	6	971; 1719; 1828; 2735; 2988; 3323
FspEI	CCNNNNNNNNNNNN!	124	13; 144; 166; 220; 257; 271; 288; 303; 328; 355; 373; 387; 409; 435; 465; 484; 505; 528; 547; 567; 581; 613; 639; 661; 684; 716; 736; 751; 798; 814; 837; 888; 911; 951; 979; 1047; 1062; 1116; 1149; 1190; 1212; 1232; 1288; 1306; 1348; 1411; 1461; 1482; 1503; 1524; 1577; 1602; 1618; 1705; 1780; 1817; 1833; 1850; 1880; 1898; 1933; 1948; 1993; 2074; 2093; 2119; 2136; 2223; 2269; 2287; 2317; 2331; 2380; 2401; 2424; 2438; 2453; 2467; 2482; 2553; 2576; 2593; 2607; 2628; 2654; 2732; 2786; 2823; 2838; 2909; 3000; 3076; 3098; 3129; 3145; 3182; 3209; 3227; 3253; 3270; 3287; 3303; 3328; 3353; 3381; 3438; 3471; 3501; 3537; 3593; 3633; 3665; 3679; 3702; 3779; 3806; 3849; 3888; 3940; 4034; 4048; 4077; 4098; 4124
FspEI	!NNNNNNNNNNNNNNNGG	123	21; 53; 85; 104; 127; 145; 163; 188; 208; 235; 265; 320; 349; 385; 418; 457; 493; 515; 546; 581; 607; 626; 664; 703; 724; 748; 772; 799; 818; 853; 897; 916; 940; 961; 982; 1010; 1038; 1060; 1108; 1162; 1204; 1229; 1308; 1332; 1363; 1384; 1440; 1471; 1510; 1529; 1552; 1583; 1635; 1661; 1688; 1711; 1730; 1748; 1775; 1795; 1833; 1871; 1898; 1925; 1944; 1989; 2014; 2052; 2079; 2097; 2137; 2158; 2176; 2204; 2237; 2266; 2292; 2340; 2374; 2432; 2458; 2493; 2512; 2530; 2579; 2605; 2629; 2649; 2672; 2697; 2724; 2768; 2795; 2813; 2864; 2896; 2933; 2961; 3033; 3064; 3141; 3199; 3233; 3254; 3300; 3362; 3389; 3410; 3463; 3505; 3526; 3590; 3630; 3652; 3710; 3741; 3830; 3849; 3868; 3940; 3959; 3998; 4080
Fsp4HI	GC!NGC	30	459; 583; 631; 642; 645; 697; 700; 834; 938; 1564; 1823; 1834; 1880; 1977; 2030; 2146; 2164; 2167; 2285; 2440; 2583; 2648; 2651; 2857; 3122; 3185; 3524; 3551; 3646; 3875
GdiIII	C!GGCCR	2	204; 645
GdiII	Y!GGCCG	1	3521
GlaI	GC!GC	19	172; 288; 418; 502; 592; 1842; 1945; 1975; 2116; 2149; 2419; 2486; 2586; 2760; 2869; 3262; 3355; 3692; 4024
Glul	GC!NGC	30	459; 583; 631; 642; 645; 697; 700; 834; 938; 1564; 1823; 1834; 1880; 1977; 2030; 2146; 2164; 2167; 2285; 2440; 2583; 2648; 2651; 2857; 3122; 3185; 3524; 3551; 3646; 3875
GsaI	CCCAG!C	2	572; 812
GsaI	GCTGG!G	2	414; 2548
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	493; 655; 1344
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3203
HaeI	WGG!CCW	6	682; 1402; 1489; 2255; 2266; 2718
HaeII	RGCGC!Y	3	290; 2118; 2488
HaeIII	GG!CC	20	206; 533; 599; 625; 647; 682; 790; 1135; 1180; 1402; 1489; 1766; 2255; 2266; 2284; 2718; 3176; 3256; 3523; 4110
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	1	3152
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	1	3118
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	1	3151
HaeIV	!NNNNNNNGAYNNNNNNRTC	1	3120
HapII	C!CGG	18	142; 342; 824; 941; 1177; 1219; 1347; 1886; 1920; 2447; 2594; 2620; 2810; 3214; 3248; 3315; 3425; 3667
HgaI	GACGCNNNNN!	3	715; 2351; 2929

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HgaI	!NNNNNNNNNGCGTC	2	1935; 3659
HhaI	GCG!C	19	173; 289; 419; 503; 593; 1843; 1946; 1976; 2117; 2150; 2420; 2487; 2587; 2761; 2870; 3263; 3356; 3693; 4025
Hin1I	GR!CGYC	4	287; 707; 3670; 4052
Hin1II	CATG!	19	135; 171; 189; 426; 624; 1297; 1527; 1588; 1609; 1879; 1984; 2244; 2964; 3455; 3465; 3543; 3579; 3972; 4077
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1229; 3151; 3225
Hin4I	!NNNNNNNGABNNNNNRTC	1	3119
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	1	3151
Hin4I	!NNNNNNNGAYNNNNNVTC	3	1197; 3119; 3193
Hin6I	G!CGC	19	171; 287; 417; 501; 591; 1841; 1944; 1974; 2115; 2148; 2418; 2485; 2585; 2759; 2868; 3261; 3354; 3691; 4023
HinP1I	G!CGC	19	171; 287; 417; 501; 591; 1841; 1944; 1974; 2115; 2148; 2418; 2485; 2585; 2759; 2868; 3261; 3354; 3691; 4023
HincII	GTY!RAC	0	
HindII	GTY!RAC	0	
HindIII	A!AGCTT	1	850
HinfI	G!ANTC	9	55; 871; 962; 1572; 1713; 2140; 2215; 2611; 3128
HpaI	GTT!AAC	0	
HpaII	C!CGG	18	142; 342; 824; 941; 1177; 1219; 1347; 1886; 1920; 2447; 2594; 2620; 2810; 3214; 3248; 3315; 3425; 3667
HphI	GGTGANNNNNNNN!	9	777; 969; 1258; 1402; 1470; 1804; 1862; 3619; 3860
HphI	!NNNNNNNTCACC	8	342; 1264; 1458; 1512; 2976; 3203; 3825; 4114
Hpy8I	GTN!NAC	13	183; 201; 330; 350; 720; 840; 1272; 1795; 2013; 2058; 2556; 3044; 3802
Hpy99I	CGWCG!	6	598; 709; 1342; 2345; 3139; 3402
Hpy166II	GTN!NAC	13	183; 201; 330; 350; 720; 840; 1272; 1795; 2013; 2058; 2556; 3044; 3802
Hpy188I	TCN!GA	12	902; 924; 1871; 2037; 2354; 2432; 2785; 2919; 3054; 3500; 3511; 3631
Hpy188III	TC!NNGA	23	3; 125; 216; 315; 492; 666; 732; 912; 989; 1219; 1323; 1804; 1828; 2474; 2608; 2706; 2804; 2887; 2961; 3220; 3969; 4074; 4104
HpyAV	CCTTCNNNNNN!	6	222; 309; 438; 2480; 2790; 3498
HpyAV	!NNNNNGAAGG	6	171; 273; 681; 2732; 3245; 3857
HpyCH4III	ACN!GT	15	276; 1038; 1116; 1149; 1246; 1287; 1390; 1637; 1859; 1894; 2204; 2275; 2745; 3058; 3573
HpyCH4IV	A!CGT	10	197; 497; 587; 1309; 1484; 1993; 2943; 3359; 3732; 4052
HpyCH4V	TG!CA	15	183; 330; 449; 543; 585; 696; 1879; 2058; 2556; 2852; 3187; 3277; 3470; 3558; 3802
HpyF3I	C!TNAG	12	862; 899; 995; 1443; 1749; 1805; 2050; 2515; 2924; 3090; 3630; 4056
HpyF10VI	GCNNNNN!NNGC	19	33; 416; 455; 467; 509; 588; 749; 777; 833; 858; 976; 1000; 1563; 2064; 2114; 2179; 2293; 2865; 3253
Hsp92I	GR!CGYC	4	287; 707; 3670; 4052
Hsp92II	CATG!	19	135; 171; 189; 426; 624; 1297; 1527; 1588; 1609; 1879; 1984; 2244; 2964; 3455; 3465; 3543; 3579; 3972; 4077
HspAI	G!CGC	19	171; 287; 417; 501; 591; 1841; 1944; 1974; 2115; 2148; 2418; 2485; 2585; 2759; 2868; 3261; 3354; 3691; 4023
KasI	G!GCGCC	1	286
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1218
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	155
KspAI	GTT!AAC	0	
Kzo9I	!GATC	19	121; 127; 155; 218; 734; 884; 2806; 2881; 2892; 2900; 2978; 2990; 3095; 3436; 3454; 3500; 3758; 3775; 3811
LguI	GCTCTTCN!	1	2124
LguI	!NNNNGAAGAGC	0	
LpnI	RGC!GCGY	3	288; 2116; 2486
LpnPI	CCDGNNNNNNNNN!	52	155; 271; 307; 328; 355; 484; 505; 568; 582; 613; 640; 667; 751; 817; 837; 888; 954; 1123; 1190; 1216; 1232; 1360; 1411; 1467; 1482; 1715; 1817; 1899; 1933; 2000; 2269; 2333; 2401; 2438; 2460; 2607; 2633; 2786; 2823; 3138; 3192; 3227; 3253; 3287; 3310; 3328; 3353; 3438; 3680; 3792; 3849; 4061

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	!NNNNNNNNNNNNNNNCHGG	52	127; 327; 396; 457; 589; 619; 724; 799; 897; 926; 974; 1010; 1108; 1162; 1204; 1237; 1308; 1332; 1384; 1440; 1552; 1639; 1688; 1747; 1871; 1905; 1925; 2001; 2097; 2204; 2253; 2278; 2357; 2387; 2432; 2530; 2579; 2605; 2629; 2649; 2795; 2813; 3158; 3199; 3233; 3300; 3362; 3410; 3590; 3652; 3830; 3940
Lsp1109I	GCAGCNNNNNNNN!	7	470; 708; 1891; 1988; 2659; 2868; 3562
Lsp1109I	!NNNNNNNNNNNNNGCTGC	9	569; 617; 686; 1820; 2132; 2150; 2569; 3108; 3171
LweI	GCATCNNNNNN!	9	452; 737; 1065; 1738; 2041; 2117; 2337; 3389; 3829
LweI	!NNNNNNNNNNNGATGC	5	530; 1550; 1906; 2077; 3580
MabI	A!CCWGGT	0	
MaeI	C!TAG	6	971; 1719; 1828; 2735; 2988; 3323
MaeII	A!CGT	10	197; 497; 587; 1309; 1484; 1993; 2943; 3359; 3732; 4052
MaeIII	!GTNAC	12	1279; 1384; 1894; 1989; 2596; 2659; 2775; 3058; 3389; 3447; 3600; 3788
MalI	GA!TC	19	123; 129; 157; 220; 736; 886; 2808; 2883; 2894; 2902; 2980; 2992; 3097; 3438; 3456; 3502; 3760; 3777; 3813
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	1	1825
MbiI	GAG!CGG	4	36; 68; 2173; 3974
MboI	!GATC	19	121; 127; 155; 218; 734; 884; 2806; 2881; 2892; 2900; 2978; 2990; 3095; 3436; 3454; 3500; 3758; 3775; 3811
MboII	GAAGANNNNNNNNN!	2	558; 2902
MboII	!NNNNNNNTCTTC	8	480; 1497; 2111; 2973; 3728; 3806; 3915; 4111
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	59
MflI	R!GATCY	9	127; 734; 884; 2881; 2892; 2978; 2990; 3758; 3775
MhlI	GDGCH!C	11	185; 256; 332; 514; 569; 782; 1693; 2060; 2558; 3719; 3804
MlsI	TGG!CCA	1	1489
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	1489
MlyI	GAGTCNNNNNN!	1	2620
MlyI	!NNNNNGACTC	4	865; 1707; 2134; 3122
Mly113I	GG!CGCC	1	287
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	2455; 2639
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	0	
MnlI	CCTCNNNNNNNN!	8	10; 908; 1847; 1877; 2139; 2422; 3300; 3506
MnlI	!NNNNNNNGAGG	19	93; 112; 156; 183; 216; 243; 276; 357; 393; 426; 468; 630; 1068; 1719; 2348; 2672; 3072; 3153; 4100
Mph1103I	ATGCA!T	0	
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1218
MroNI	G!CCGGC	0	
MroXI	GAANN!NNTTC	1	3732
MscI	TGG!CCA	1	1489
MseI	T!TAA	19	95; 109; 149; 854; 1141; 1480; 1622; 1674; 1695; 2021; 2946; 2998; 3003; 3017; 3070; 3305; 3344; 3709; 4081
MslI	CAYNN!NNRTG	6	172; 325; 619; 3385; 3544; 3903
MspI	C!CGG	18	142; 342; 824; 941; 1177; 1219; 1347; 1886; 1920; 2447; 2594; 2620; 2810; 3214; 3248; 3315; 3425; 3667
Msp20I	TGG!CCA	1	1489
MspA1I	CMG!CKG	9	410; 699; 833; 1122; 1566; 1952; 2582; 2827; 3768
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	202	13; 49; 81; 94; 137; 153; 166; 180; 196; 210; 228; 246; 261; 278; 306; 327; 354; 373; 386; 400; 423; 444; 469; 483; 504; 519; 538; 556; 580; 598; 612; 633; 646; 666; 686; 715; 729; 744; 774; 789; 803; 816; 836; 849; 865; 879; 900; 913; 935; 953; 978; 992; 1007; 1037; 1061; 1106; 1122; 1135; 1161; 1177; 1201; 1215; 1231; 1264; 1289; 1306; 1335; 1348; 1372; 1394; 1410; 1423; 1455; 1481; 1497; 1525; 1542; 1555; 1570; 1588; 1618; 1633; 1666; 1706; 1731; 1745; 1761; 1774; 1816; 1840; 1854; 1882; 1897; 1914; 1932; 1947; 1965; 1982; 1998; 2017; 2032; 2048; 2062; 2093; 2119; 2142; 2163; 2182; 2195; 2223; 2241; 2261; 2279; 2298; 2317; 2332; 2346; 2360; 2374; 2400; 2413; 2427; 2443; 2459; 2486; 2504; 2527; 2552; 2569; 2587; 2601; 2620; 2641; 2656; 2669; 2685; 2711; 2731; 2747; 2779; 2796; 2816; 2830; 2865; 2879; 2897; 2924; 2946; 2973; 2999; 3039; 3059; 3075; 3097; 3129; 3145; 3169; 3185; 3209; 3222; 3252; 3269; 3286; 3309; 3327; 3352; 3367; 3389; 3404; 3437; 3452; 3472; 3511; 3537; 3550; 3571; 3588; 3617; 3632; 3664; 3678; 3691; 3707; 3730; 3752; 3765; 3791; 3805; 3818; 3848; 3866; 3880; 3911; 3928; 3967; 3981; 4021; 4034; 4047; 4060; 4086; 4111
MspJI	!NNNNNNNNNNNNYNG	172	10; 49; 100; 118; 139; 156; 184; 202; 220; 244; 262; 280; 301; 320; 340; 359; 383; 409; 432; 453; 478; 521; 541; 562; 586; 607; 640; 664; 689; 718; 748; 767; 790; 809; 829; 849; 874; 897; 916; 941; 961; 982; 1011; 1058; 1096; 1117; 1147; 1181; 1204; 1234; 1263; 1280; 1308; 1332; 1354; 1373; 1411; 1430; 1455; 1480; 1499; 1525; 1553; 1571; 1592; 1628; 1645; 1672; 1689; 1709; 1736; 1756; 1776; 1796; 1814; 1833; 1855; 1872; 1892; 1917; 1935; 1955; 1973; 2002; 2021; 2050; 2075; 2097; 2116; 2133; 2151; 2187; 2204; 2227; 2253; 2272; 2293; 2311; 2334; 2353; 2374; 2399; 2416; 2433; 2458; 2487; 2506; 2527; 2552; 2570; 2594; 2615; 2643; 2664; 2692; 2711; 2735; 2759; 2781; 2814; 2831; 2851; 2873; 2896; 2928; 2947; 2974; 3023; 3060; 3077; 3111; 3136; 3158; 3183; 3200; 3226; 3244; 3272; 3301; 3322; 3339; 3363; 3382; 3405; 3426; 3448; 3468; 3495; 3526; 3562; 3584; 3607; 3628; 3648; 3665; 3711; 3741; 3759; 3783; 3803; 3822; 3846; 3876; 3940; 3957; 3982; 3999; 4020; 4043; 4060; 4081; 4101
MspR9I	CC!NGG	18	142; 143; 343; 472; 739; 814; 942; 1399; 1455; 1703; 1886; 1921; 2268; 2389; 2402; 2620; 3316; 3667
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	59
MvaI	CC!WGG	9	472; 739; 814; 1399; 1455; 1703; 2268; 2389; 2402
MvaI269I	GAATGCN!	2	1215; 1622
MvaI269I	G!CATTC	0	
MvnI	CG!CG	10	173; 593; 1841; 1843; 1946; 2287; 2868; 3198; 3691; 4023
MvrI	CGAT!CG	1	3503
MwoI	GCNNNNN!NNGC	19	33; 416; 455; 467; 509; 588; 749; 777; 833; 858; 976; 1000; 1563; 2064; 2114; 2179; 2293; 2865; 3253
NaeI	GCC!GGC	0	
NarI	GG!CGCC	1	287
NciI	CC!SGG	9	142; 143; 343; 942; 1886; 1921; 2620; 3316; 3667
NcoI	C!CATGG	1	1523
NdeI	CA!TATG	1	2063
NdeII	!GATC	19	121; 127; 155; 218; 734; 884; 2806; 2881; 2892; 2900; 2978; 2990; 3095; 3436; 3454; 3500; 3758; 3775; 3811
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	2	3379; 3604
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	2	3415; 3640
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	0	
NheI	G!CTAGC	1	970
NlaIII	CATG!	19	135; 171; 189; 426; 624; 1297; 1527; 1588; 1609; 1879; 1984; 2244; 2964; 3455; 3465; 3543; 3579; 3972; 4077
NlaIV	GGN!NCC	14	129; 255; 288; 513; 534; 566; 1690; 2272; 2311; 3083; 3177; 3218; 3429; 4019
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	1	2353
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	520; 1577; 1833
Nli3877I	CYCGR!G	4	5; 145; 365; 401
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	1	3282
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmeDI	RCCGGYNNNNNNN!	1	3225
NmeDI	!NNNNNNNNNNNNRCCGGY	1	3200
NmuCI	!GTSAC	4	1894; 1989; 3389; 3600
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3355
NsiI	ATGCA!T	0	
NspI	RCATG!Y	3	171; 1879; 2244
NspV	TT!CGAA	0	
OliI	CACNN!NNGTG	1	325
PabI	GTA!C	7	359; 776; 842; 1102; 1640; 2049; 3614
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	0	
PaeR7I	C!TCGAG	1	1
PagI	T!CATGA	3	2960; 3968; 4073
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	1	1454
PauI	G!CGCGC	0	
PceI	AGG!CCT	0	
PciI	A!CATGT	1	2240
PciSI	GCTCTCN!	1	2124
PciSI	!NNNNGAAGAGC	0	
PcsI	WCGNNNN!NNNCGW	5	713; 782; 2166; 2564; 3441
PctI	GAATGCN!	2	1215; 1622
PctI	G!CATTG	0	
PdiI	GCC!GGC	0	
PdmI	GAANN!NNTTC	1	3732
PfeI	G!AWTC	4	55; 962; 1572; 2215
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	1987
PfIMI	CCANNNN!NTGG	2	717; 1454
PfoI	T!CCNGGA	1	1884
PhoI	GG!CC	20	206; 533; 599; 625; 647; 682; 790; 1135; 1180; 1402; 1489; 1766; 2255; 2266; 2284; 2718; 3176; 3256; 3523; 4110
PinAI	A!CCGGT	0	
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	3	491; 2059; 2135
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	1184; 1538
PleI	GAGTCNNNN!	1	2619
PleI	!NNNNNGACTC	4	865; 1707; 2134; 3122
Ple19I	CGAT!CG	1	3503
PmaCI	CAC!GTG	1	588
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	1	588
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2955
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3765
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	1	3797
PpiI	!NNNNNNNGAACNNNNNCTC	1	2923
PpsI	GAGTCNNNN!	1	2619
PpsI	!NNNNNGACTC	4	865; 1707; 2134; 3122
Ppu10I	A!TGCAT	0	
Ppu21I	YAC!GTR	2	588; 1994
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	2240
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	3305
PsiI	TTA!TAA	1	49
Psp03I	GGWC!C	4	723; 824; 3274; 3496
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	9	470; 737; 812; 1397; 1453; 1701; 2266; 2387; 2400
Psp1406I	AA!CGTT	3	1309; 3359; 3732
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	1	588
PspEI	G!GTNACC	0	
PspGI	!CCWGG	9	470; 737; 812; 1397; 1453; 1701; 2266; 2387; 2400
PspLI	C!GTACG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspN4I	GGN!NCC	14	129; 255; 288; 513; 534; 566; 1690; 2272; 2311; 3083; 3177; 3218; 3429; 4019
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	0	
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	0	
PspPI	G!GNCC	11	532; 624; 720; 789; 821; 1764; 3175; 3254; 3271; 3493; 4109
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNN!	2	918; 3197
PspPRI	!NNNNNNNNNNNNNNCTGRGG	1	1689
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNTAC	0	
PssI	RGGNC!CY	1	4112
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	1	2656
PsuI	R!GATCY	9	127; 734; 884; 2881; 2892; 2978; 2990; 3758; 3775
PsyI	GACN!NNGTC	1	1987
PteI	G!CGCGC	0	
PvuI	CGAT!CG	1	3503
PvuII	CAG!CTG	3	410; 699; 1122
RcaI	T!CATGA	3	2960; 3968; 4073
RceI	CATCGACNNNNNNNNNNNNNNNN!	0	
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	0	
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNN!	2	389; 458
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	7	358; 775; 841; 1101; 1639; 2048; 3613
RsaNI	G!TAC	7	357; 774; 840; 1100; 1638; 2047; 3612
RseI	CAYNN!NNRTG	6	172; 325; 619; 3385; 3544; 3903
RsrII	CG!GWCCG	0	
Rsr2I	CG!GWCCG	0	
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	1	2124
SapI	!NNNNGAAGAGC	0	
SaqAI	T!TAA	19	95; 109; 149; 854; 1141; 1480; 1622; 1674; 1695; 2021; 2946; 2998; 3003; 3017; 3070; 3305; 3344; 3709; 4081
SatI	GC!NGC	30	459; 583; 631; 642; 645; 697; 700; 834; 938; 1564; 1823; 1834; 1880; 1977; 2030; 2146; 2164; 2167; 2285; 2440; 2583; 2648; 2651; 2857; 3122; 3185; 3524; 3551; 3646; 3875
Sau96I	G!GNCC	11	532; 624; 720; 789; 821; 1764; 3175; 3254; 3271; 3493; 4109
Sau3AI	!GATC	19	121; 127; 155; 218; 734; 884; 2806; 2881; 2892; 2900; 2978; 2990; 3095; 3436; 3454; 3500; 3758; 3775; 3811
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	2	1639; 3613
SchI	GAGTCNNNNN!	1	2620
SchI	!NNNNNGACTC	4	865; 1707; 2134; 3122
SciI	CTC!GAG	1	3
ScrFI	CC!NGG	18	142; 143; 343; 472; 739; 814; 942; 1399; 1455; 1703; 1886; 1921; 2268; 2389; 2402; 2620; 3316; 3667
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNN!	4	570; 1015; 3290; 3536
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	3	853; 1782; 2403
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNTCAYNNNNNGTC	1	3380
SdeOSI	TCAYNNNNNGTCNNNNNNNNNN!	1	3414

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	11	185; 256; 332; 514; 569; 782; 1693; 2060; 2558; 3719; 3804
SelI	!CGCG	10	171; 591; 1839; 1841; 1944; 2285; 2866; 3196; 3689; 4021
SetI	ASST!	63	2; 155; 182; 200; 272; 307; 394; 412; 430; 500; 584; 590; 656; 676; 692; 701; 767; 773; 818; 854; 863; 868; 900; 972; 976; 996; 1005; 1105; 1124; 1253; 1312; 1400; 1487; 1556; 1580; 1724; 1835; 1869; 1884; 1903; 1996; 2184; 2359; 2410; 2456; 2512; 2531; 2546; 2683; 2782; 2803; 2946; 2989; 3087; 3123; 3324; 3362; 3424; 3487; 3735; 4050; 4055; 4087
SexAI	A!CCWGGT	0	
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	452; 737; 1065; 1738; 2041; 2117; 2337; 3389; 3829
SfaNI	!NNNNNNNNNGATGC	5	530; 1550; 1906; 2077; 3580
SfcI	C!TRYAG	5	405; 795; 2505; 2696; 3374
SfiI	GGCCNNNN!NGGCC	0	
SfoI	GGC!GCC	1	288
Sfr274I	C!TCGAG	1	1
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	0	
SgeI	CNNGNNNNNNNNN!	159	13; 137; 153; 171; 184; 198; 220; 234; 252; 270; 288; 306; 327; 354; 373; 396; 409; 423; 444; 483; 504; 519; 547; 567; 581; 598; 612; 633; 646; 666; 690; 715; 729; 744; 774; 789; 803; 816; 836; 849; 879; 900; 924; 942; 979; 992; 1037; 1122; 1135; 1179; 1207; 1231; 1264; 1289; 1306; 1335; 1348; 1384; 1410; 1466; 1481; 1497; 1525; 1555; 1579; 1597; 1618; 1666; 1714; 1731; 1774; 1816; 1840; 1854; 1888; 1914; 1932; 1947; 1965; 1982; 1999; 2028; 2124; 2142; 2163; 2182; 2231; 2253; 2268; 2298; 2332; 2360; 2379; 2400; 2413; 2427; 2448; 2466; 2486; 2513; 2553; 2569; 2587; 2606; 2620; 2641; 2656; 2669; 2690; 2718; 2747; 2785; 2816; 2840; 2865; 2879; 2899; 2924; 2954; 2973; 3000; 3059; 3137; 3150; 3169; 3185; 3209; 3226; 3252; 3270; 3286; 3309; 3327; 3352; 3389; 3404; 3437; 3452; 3474; 3552; 3588; 3617; 3633; 3665; 3678; 3691; 3752; 3767; 3791; 3809; 3848; 3872; 3911; 3967; 3981; 4034; 4060; 4086; 4116
SgeI	!NNNNNNNNNNNNNCNNG	136	111; 128; 145; 172; 194; 214; 235; 256; 280; 301; 328; 347; 370; 397; 418; 457; 478; 521; 541; 562; 586; 607; 640; 664; 689; 718; 748; 767; 790; 810; 829; 853; 874; 898; 916; 953; 975; 1011; 1096; 1153; 1181; 1205; 1238; 1263; 1280; 1309; 1333; 1358; 1384; 1440; 1471; 1499; 1529; 1553; 1571; 1592; 1640; 1688; 1705; 1748; 1790; 1814; 1862; 1888; 1906; 1926; 1949; 1967; 2002; 2098; 2116; 2137; 2156; 2205; 2227; 2253; 2272; 2306; 2334; 2353; 2374; 2399; 2422; 2440; 2460; 2487; 2527; 2552; 2580; 2605; 2630; 2650; 2692; 2721; 2759; 2790; 2814; 2839; 2873; 2898; 2928; 2947; 2974; 3033; 3111; 3143; 3165; 3183; 3200; 3226; 3244; 3283; 3301; 3326; 3363; 3382; 3411; 3431; 3448; 3526; 3562; 3591; 3639; 3665; 3726; 3765; 3783; 3822; 3846; 3885; 3941; 4008; 4034; 4060; 4090; 4112
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	1	2915
SimI	!GACCC	4	551; 1983; 2432; 3201
SinI	G!GWCC	4	720; 821; 3271; 3493
SlaI	C!TCGAG	1	1
SmaI	CCC!GGG	1	143
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	6	172; 325; 619; 3385; 3544; 3903
SmlI	C!TYRAG	6	1; 1723; 2346; 2608; 2885; 3753
SmoI	C!TYRAG	6	1; 1723; 2346; 2608; 2885; 3753
SmuI	CCCGCNNNN!	2	799; 1207
SmuI	!NNNNNNNGCGGG	2	1651; 1945
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	0	
SrfI	GCCC!GGGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sse9I	!AATT	14	17; 44; 59; 76; 88; 106; 146; 855; 1222; 1627; 1666; 3000; 3306; 3561
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	0	
SsiI	C!CGC	26	263; 323; 456; 726; 792; 938; 1200; 1564; 1820; 1823; 2080; 2106; 2123; 2285; 2313; 2440; 2459; 2580; 2825; 3196; 3287; 3524; 3689; 3766; 3875; 4021
SsiI	G!CGG	20	36; 68; 641; 644; 833; 1658; 1913; 1952; 1962; 2004; 2029; 2067; 2166; 2173; 2194; 2690; 2834; 3478; 3645; 3974
SspI	AAT!ATT	2	1534; 3937
SspDI	G!GCGCC	1	286
SspD5I	GGTGANNNNNNNN!	9	777; 969; 1258; 1402; 1470; 1804; 1862; 3619; 3860
SspD5I	!NNNNNNNNNTCACC	8	341; 1263; 1457; 1511; 2975; 3202; 3824; 4113
SstI	GAGCT!C	0	
SstII	CCG!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	18	148; 368; 380; 404; 542; 710; 798; 1206; 1520; 1892; 1942; 2374; 2573; 2582; 2626; 3140; 3673; 4041
Sth132I	!NNNNNNNNNCGGG	14	116; 134; 334; 933; 1650; 1912; 1944; 1961; 2465; 2903; 3148; 3307; 3670; 3731
Sth302II	CC!GG	18	143; 343; 825; 942; 1178; 1220; 1348; 1887; 1921; 2448; 2595; 2621; 2811; 3215; 3249; 3316; 3426; 3668
StrI	C!TCGAG	1	1
StsI	GGATGNNNNNNNNNN!	1	1929
StsI	!NNNNNNNNNNNNNNNNCATCC	7	297; 354; 438; 1201; 3098; 3279; 3566
StuI	AGG!CCT	0	
StyI	C!CWWGG	1	1523
StyD4I	!CCNGG	18	140; 141; 341; 470; 737; 812; 940; 1397; 1453; 1701; 1884; 1919; 2266; 2387; 2400; 2618; 3314; 3665
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	276; 1038; 1116; 1149; 1246; 1287; 1390; 1637; 1859; 1894; 2204; 2275; 2745; 3058; 3573
TaiI	ACGT!	10	200; 500; 590; 1312; 1487; 1996; 2946; 3362; 3735; 4055
TaqI	T!CGA	7	2; 221; 431; 731; 1754; 2340; 3784
TaqII	GACCGANNNNNNNNNN!	1	3666
TaqII	!NNNNNNNNNTCGGTC	2	2142; 3481
TaqII	CACCCANNNNNNNNNN!	2	271; 3819
TaqII	!NNNNNNNNNTGGGTG	2	1446; 3836
TasI	!AATT	14	17; 44; 59; 76; 88; 106; 146; 855; 1222; 1627; 1666; 3000; 3306; 3561
TatI	W!GTACW	4	839; 1637; 2046; 3611
TauI	GCSG!C	13	644; 647; 836; 940; 1566; 1825; 2032; 2169; 2287; 2442; 3526; 3648; 3877
TfiI	G!AWTC	4	55; 962; 1572; 2215
TliI	C!TCGAG	1	1
TruII	T!TAA	19	95; 109; 149; 854; 1141; 1480; 1622; 1674; 1695; 2021; 2946; 2998; 3003; 3017; 3070; 3305; 3344; 3709; 4081
Tru9I	T!TAA	19	95; 109; 149; 854; 1141; 1480; 1622; 1674; 1695; 2021; 2946; 2998; 3003; 3017; 3070; 3305; 3344; 3709; 4081
TscAI	CASTGNN!	9	1029; 2142; 2648; 2661; 2932; 3081; 3186; 3533; 3560
TseI	G!CWGC	17	458; 582; 630; 696; 699; 1833; 1879; 1976; 2145; 2163; 2582; 2647; 2650; 2856; 3121; 3184; 3550
TsoI	TARCCANNNNNNNNNN!	1	1123
TsoI	!NNNNNNNNNTGGYTA	1	3532
Tsp45I	!GTSAC	4	1894; 1989; 3389; 3600
Tsp509I	!AATT	14	17; 44; 59; 76; 88; 106; 146; 855; 1222; 1627; 1666; 3000; 3306; 3561
TspDTI	ATGAANNNNNNNNNN!	5	148; 1222; 1252; 1640; 3024
TspDTI	!NNNNNNNNNTTCAT	4	1304; 1570; 3101; 3404
TspEI	!AATT	14	17; 44; 59; 76; 88; 106; 146; 855; 1222; 1627; 1666; 3000; 3306; 3561
TspGWI	ACGGANNNNNNNNNN!	1	3915
TspGWI	!NNNNNNNNNTCCGT	1	3573
TspMI	C!CCGGG	1	141
TspRI	CASTGNN!	9	1029; 2142; 2648; 2661; 2932; 3081; 3186; 3533; 3560

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	CACNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	1987
Tth111II	CAARCANNNNNNNNNN!	3	400; 2830; 2869
Tth111II	!NNNNNNNNNTGYTTG	2	1774; 2837
UnbI	!GGNCC	11	531; 623; 719; 788; 820; 1763; 3174; 3253; 3270; 3492; 4108
Van9II	CCANNNN!NTGG	2	717; 1454
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	5	181; 328; 2056; 2554; 3800
VpaK11AI	!GGWCC	4	719; 820; 3270; 3492
VpaK11BI	G!GWCC	4	720; 821; 3271; 3493
VspI	AT!TAAT	1	3305
XagI	CCTNN!NNNAGG	1	157
XapI	R!AATTY	2	17; 1222
XbaI	T!CTAGA	1	1827
XceI	RCATG!Y	3	171; 1879; 2244
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1
XhoII	R!GATCY	9	127; 734; 884; 2881; 2892; 2978; 2990; 3758; 3775
XmaI	C!CCGGG	1	141
XmaJI	C!CTAGG	0	
XmiI	GT!MKAC	1	2012
XmnI	GAANN!NNTTC	1	3732
XspI	C!TAG	6	971; 1719; 1828; 2735; 2988; 3323
ZraI	GAC!GTC	1	4053
ZrmI	AGT!ACT	2	1639; 3613
Zsp2I	ATGCA!T	0	