

## pHcRed-Tandem-PRL vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1624; 1829
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1912; 2868; 4657
AatI	AGG!CCT	1	2662
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	58
AccII	CG!CG	17	69; 650; 1346; 1490; 1765; 2141; 2161; 2185; 2216; 2907; 3208; 3646; 3730; 3793; 3862; 4135; 4716
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	3	127; 823; 2943
Acc36I	ACCTGCNNNN!	4	770; 1466; 3109; 3559
Acc36I	!NNNNNNNNGCAGGT	1	2728
Acc65I	G!GTACC	1	63
AccB1I	G!GYRCC	14	63; 148; 208; 241; 466; 599; 844; 904; 937; 1162; 1295; 1994; 2840; 2875
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	2265; 3454
AccBSI	GAG!CGG	6	104; 509; 800; 1205; 2101; 3508
AceIII	CAGCTCNNNNNNN!	1	1797
AceIII	!NNNNNNNNGAGCTG	2	715; 1411
Acil	C!CGC	32	67; 317; 407; 479; 1013; 1103; 1175; 1488; 2156; 2159; 2173; 2263; 2511; 2523; 2532; 2544; 2554; 2565; 2611; 2750; 2813; 3315; 3360; 3426; 3452; 3577; 3580; 3728; 3860; 4167; 4311; 4807
Acil	G!CGG	33	69; 104; 395; 509; 512; 563; 702; 800; 1091; 1205; 1208; 1259; 1398; 2101; 2128; 2216; 2326; 2907; 2971; 3072; 3075; 3355; 3410; 3508; 3646; 3793; 3933; 4176; 4421; 4542; 4561; 4688; 4716
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	8	86; 2709; 3020; 3266; 3658; 4017; 4115; 4201
AcIWI	!NNNNNGATCC	7	73; 318; 1014; 3085; 3629; 4016; 4113
AcoI	Y!GGCCR	8	159; 564; 855; 1260; 2747; 2921; 3312; 3339
AcsI	R!AATY	4	47; 1655; 1759; 1770
AcuI	CTGAAGNNNNNNNNNNNNNNN!	6	133; 604; 829; 1300; 2987; 3419
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4217
AcvI	CAC!GTG	2	231; 927
AcyI	GR!CGYC	5	242; 938; 2841; 3543; 3622
AdeI	CACNNN!GTG	1	1957
Afal	GT!AC	14	65; 139; 289; 541; 721; 733; 754; 835; 985; 1237; 1417; 1429; 1450; 3147
Afel	AGC!GCT	1	14
AfiI	CCNNNNN!NNGG	29	114; 205; 484; 550; 588; 629; 686; 810; 901; 1180; 1246; 1284; 1325; 1382; 1853; 2179; 2571; 2822; 3366; 3647; 3679; 3811; 3846; 3896; 3928; 4281; 4560; 4726; 4744
AfII	C!TTAAG	1	1723
AfIII	A!CRYGT	1	4759
AgeI	A!CCGGT	1	84
AgsI	TTS!AA	9	171; 339; 867; 1035; 2252; 2296; 2306; 2719; 4295
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	17	269; 364; 413; 425; 965; 1060; 1109; 1121; 2375; 2430; 2447; 3226; 3805; 3908; 4598; 4611; 4732
AjuI	GAANNNNNNTTGGNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNCCAANNNNNNTTC	0	
AjuI	CCAANNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNGAANNNNNNTTGG	0	
AleI	CACNN!NNGTG	3	97; 532; 1228
AlfI	GCANNNNTTGCNNNNNNNNNNNN!	2	2415; 2487
AlfI	!NNNNNNNNNGCANNNNNTGC	2	2381; 2453
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	1923
AloI	!NNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNGAACNNNNNTCC	1	1891
AluI	AG!CT	19	36; 42; 347; 626; 729; 1043; 1322; 1425; 1620; 1787; 2044; 2339; 2627; 2947; 3405; 4202; 4459; 4505; 4595
AluBI	AG!CT	19	36; 42; 347; 626; 729; 1043; 1322; 1425; 1620; 1787; 2044; 2339; 2627; 2947; 3405; 4202; 4459; 4505; 4595
AlwI	GGATCNNNN!	8	86; 2709; 3020; 3266; 3658; 4017; 4115; 4201
AlwI	!NNNNNGATCC	7	73; 318; 1014; 3085; 3629; 4016; 4113
Alw21I	GWGCW!C	8	38; 311; 464; 1007; 1160; 2954; 3144; 4449
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	4	2265; 2683; 3702; 3830
Alw44I	G!TGCAC	5	307; 460; 1003; 1156; 4445
AlwNI	CAGNNN!CTG	4	699; 1395; 3942; 4350
Ama87I	C!YCGRG	10	31; 74; 352; 544; 766; 787; 1048; 1240; 1462; 1481
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	14
ApaI	GGGCC!C	1	75
ApaBI	GCANNNNN!TGC	3	2409; 2481; 3943
ApaLI	G!TGCAC	5	307; 460; 1003; 1156; 4445
ApeKI	G!CWGC	19	281; 293; 699; 977; 989; 1395; 1617; 2136; 2801; 2902; 2944; 2985; 3078; 3465; 3918; 4144; 4350; 4353; 4418
ApoI	R!AATTY	4	47; 1655; 1759; 1770
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3356
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	3150; 3803; 4641
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3240
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	4	269; 542; 965; 1238
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2669
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	5	330; 456; 1026; 1152; 3411
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	2	738; 1434
ArsI	!NNNNNCRANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	2	706; 1402
AscI	GG!CGGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	26	28; 79; 324; 444; 606; 782; 1020; 1140; 1302; 1499; 2679; 2683; 2702; 3013; 3091; 3172; 3181; 3259; 3635; 3651; 4010; 4022; 4100; 4108; 4119; 4194
AsiGI	A!CCGGT	1	84
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2959
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	63
AspA2I	C!CTAGG	2	2663; 3678
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	29	15; 128; 244; 650; 652; 824; 940; 1346; 1348; 2107; 2115; 2141; 2163; 2172; 2185; 2216; 2835; 2843; 2907; 2944; 3210; 3470; 3646; 3732; 4135; 4244; 4418; 4518; 4585
AspS9I	G!GNCC	18	71; 72; 273; 299; 487; 579; 747; 969; 995; 1183; 1275; 1443; 1948; 3357; 3802; 3848; 3906; 3939
AssI	AGT!ACT	2	721; 1417
AsuII	TT!CGAA	2	45; 3523
AsuC2I	CC!SGG	12	75; 76; 665; 750; 788; 789; 1361; 1446; 2845; 3005; 3618; 4382
AsuHPI	GGTGANNNNNNNN!	6	111; 465; 807; 1161; 3912; 4028
AsuHPI	!NNNNNNNTCACC	6	354; 669; 1050; 1365; 1958; 3019
AsuNHI	G!CTAGC	0	

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AvaI	C!YCGRG	10	31; 74; 352; 544; 766; 787; 1048; 1240; 1462; 1481
AvaII	G!GWCC	4	299; 995; 3357; 3802
AviII	TGC!GCA	3	127; 823; 2943
AvrII	C!CTAGG	2	2663; 3678
AxyI	CC!TNAGG	2	2321; 3953
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	10	75; 151; 311; 464; 847; 1007; 1160; 2787; 2880; 4449
BalI	TGG!CCA	1	2923
BamHI	G!GATCC	1	78
BanI	G!GYRCC	14	63; 148; 208; 241; 466; 599; 844; 904; 937; 1162; 1295; 1994; 2840; 2875
BanII	GRGCY!C	7	38; 75; 524; 1220; 2032; 3206; 3916
BanIII	AT!CGAT	1	2681
BarI	GAAGNNNNNTACNNNNNNNNNN!	2	735; 1431
BarI	!NNNNNNNGTANNNNNCTTC	0	
BarI	GTANNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	2	703; 1399
BasI	CCANNN!NTGG	0	
BauI	C!ACGAG	2	3559; 4586
BauI	C!TCGTG	1	3433
BbeI	GGCGC!C	3	245; 941; 2844
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	231; 927
BbsI	GAAGACNN!	0	
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2411; 2483; 3246
BbvI	GCAGCNNNNNN!	8	305; 1001; 1629; 2914; 2956; 3477; 3930; 4430
BbvI	!NNNNNNNNNNNGCTGC	10	268; 686; 964; 1382; 2123; 2788; 2972; 3065; 4131; 4337
Bbv12I	GWGCW!C	8	38; 311; 464; 1007; 1160; 2954; 3144; 4449
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	4	1971; 2535; 3061; 3563
BccI	!NNNNNGATGG	6	570; 786; 1266; 1939; 2719; 3147
BceAI	ACGGCNNNNNNNNNN!	16	174; 207; 306; 408; 480; 501; 567; 870; 903; 1002; 1104; 1176; 1197; 1263; 3267; 3754
BceAI	!NNNNNNNNNNNGCCGT	5	628; 1324; 1982; 2800; 4259
Bcefl	ACGGCNNNNNNNNNN!	16	174; 207; 306; 408; 480; 501; 567; 870; 903; 1002; 1104; 1176; 1197; 1263; 3267; 3754
Bcefl	!NNNNNNNNNNNGCCGT	5	629; 1325; 1983; 2801; 4260
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	4	183; 285; 879; 981
BcgI	GCANNNNNNTCGNNNNNNNNNN!	4	217; 319; 913; 1015
BcgI	!NNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2270; 3060; 4561
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	12	75; 76; 665; 750; 788; 789; 1361; 1446; 2845; 3005; 3618; 4382
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	1	4694
BdaI	!NNNNNNNNNTGANNNNNTCA	1	4660
BfaI	C!TAG	8	10; 1496; 1690; 2108; 2664; 3679; 4013; 4266
BfiI	ACTGGGNNNN!	1	2790
BfiI	!NNNCCCAGT	1	2542
BfmI	C!TRYAG	4	52; 2176; 4303; 4494
BfoI	RGCGC!Y	7	16; 245; 941; 2108; 2116; 2844; 4519
BfrI	C!TTAAG	1	1723
BfuI	GTATCCNNNNNN!	3	2270; 3060; 4561
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	770; 1466; 3109; 3559
BfuAI	!NNNNNNNGCAGGT	1	2728

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BfuCI	!GATC	26	27; 78; 323; 443; 605; 781; 1019; 1139; 1301; 1498; 2678; 2682; 2701; 3012; 3090; 3171; 3180; 3258; 3634; 3650; 4009; 4021; 4099; 4107; 4118; 4193
BglI	GCCNNNN!NGGC	5	431; 745; 1127; 1441; 2616
BglII	A!GATCT	2	27; 781
BisI	GC!NGC	45	105; 282; 294; 396; 510; 513; 564; 700; 801; 978; 990; 1092; 1206; 1209; 1260; 1396; 1488; 1618; 2137; 2159; 2173; 2611; 2750; 2802; 2813; 2903; 2908; 2945; 2986; 3073; 3076; 3079; 3315; 3411; 3452; 3466; 3580; 3919; 3934; 4145; 4351; 4354; 4419; 4562; 4717
BlnI	C!CTAGG	2	2663; 3678
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	45	106; 283; 295; 397; 511; 514; 565; 701; 802; 979; 991; 1093; 1207; 1210; 1261; 1397; 1489; 1619; 2138; 2160; 2174; 2612; 2751; 2803; 2814; 2904; 2909; 2946; 2987; 3074; 3077; 3080; 3316; 3412; 3453; 3467; 3581; 3920; 3935; 4146; 4352; 4355; 4420; 4563; 4718
BmcAI	AGT!ACT	2	721; 1417
Bme18I	G!GWCC	4	299; 995; 3357; 3802
Bme1390I	CC!NGG	29	75; 76; 271; 366; 415; 427; 665; 750; 788; 789; 967; 1062; 1111; 1123; 1361; 1446; 2377; 2432; 2449; 2845; 3005; 3228; 3618; 3807; 3910; 4382; 4600; 4613; 4734
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	10	31; 74; 352; 544; 766; 787; 1048; 1240; 1462; 1481
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	18	72; 73; 274; 300; 488; 580; 748; 970; 996; 1184; 1276; 1444; 1949; 3358; 3803; 3849; 3907; 3940
BmiI	GGN!NCC	34	65; 73; 80; 150; 210; 243; 275; 468; 489; 521; 601; 691; 846; 906; 939; 971; 1164; 1185; 1217; 1297; 1387; 1996; 2017; 2029; 2220; 2381; 2453; 2842; 2877; 3725; 3804; 3849; 4692; 4731
BmrI	ACTGGGNNNNN!	1	2790
BmrI	!NNNNCCCAGT	1	2542
BmrFI	CC!NGG	29	75; 76; 271; 366; 415; 427; 665; 750; 788; 789; 967; 1062; 1111; 1123; 1361; 1446; 2377; 2432; 2449; 2845; 3005; 3228; 3618; 3807; 3910; 4382; 4600; 4613; 4734
BmsI	GCATCNNNNN!	10	137; 407; 833; 1103; 1657; 2420; 2492; 3140; 3204; 3479
BmsI	!NNNNNNNNNGATGC	6	686; 1382; 2799; 3054; 3270; 4662
BmtI	GCTAG!C	0	
BmuI	ACTGGGNNNNN!	1	2790
BmuI	!NNNNCCCAGT	1	2542
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2630; 3529
BpI	!NNNNNNNNNGAGNNNNNCTC	2	2598; 3497
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	448; 1144; 3681
BpmI	!NNNNNNNNNNNNNNNCTCCAG	3	676; 1372; 3624
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	45; 3523
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4135; 4674
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	22; 3217; 4376
BpuMI	CC!SGG	12	75; 76; 665; 750; 788; 789; 1361; 1446; 2845; 3005; 3618; 4382
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3830
Bsa29I	AT!CGAT	1	2681
BsaAI	YAC!GTR	4	231; 927; 1957; 3145
BsaBI	GATNN!NNATC	2	1503; 2700
BsaHI	GR!CGYC	5	242; 938; 2841; 3543; 3622

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BsaJI	C!CNGGG	26	67; 74; 95; 236; 353; 365; 530; 787; 932; 1049; 1061; 1226; 2375; 2447; 2570; 2605; 2614; 2663; 3004; 3273; 3678; 3805; 3806; 3908; 3909; 4599
BsaMI	GAATGCN!	1	1592
BsaMI	G!CATTC	1	1685
BsaWI	W!CCGGW	8	18; 84; 629; 1325; 2872; 3716; 4406; 4553
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1921
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1891
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	1842; 3749
Bsc4I	CCNNNNN!NNGG	29	114; 205; 484; 550; 588; 629; 686; 810; 901; 1180; 1246; 1284; 1325; 1382; 1853; 2179; 2571; 2822; 3366; 3647; 3679; 3811; 3846; 3896; 3928; 4281; 4560; 4726; 4744
BscAI	GCATCNNNN!	10	136; 406; 832; 1102; 1656; 2419; 2491; 3139; 3203; 3478
BscAI	!NNNNNNGATGC	6	689; 1385; 2802; 3057; 3273; 4665
BseI	ACTGGN!	3	2785; 2986; 4232
BseI	C!CAGT	4	1870; 2548; 4344; 4357
BseI	GATNN!NNATC	2	1503; 2700
Bse2II	CC!TNAGG	2	2321; 3953
Bse118I	R!CCGGY	9	84; 205; 596; 901; 1292; 2058; 3160; 3341; 3624
BseAI	T!CCGGA	0	
BseBI	CC!WGG	17	271; 366; 415; 427; 967; 1062; 1111; 1123; 2377; 2432; 2449; 3228; 3807; 3910; 4600; 4613; 4734
BseCI	AT!CGAT	1	2681
BseDI	C!CNGGG	26	67; 74; 95; 236; 353; 365; 530; 787; 932; 1049; 1061; 1226; 2375; 2447; 2570; 2605; 2614; 2663; 3004; 3273; 3678; 3805; 3806; 3908; 3909; 4599
Bse3DI	GCAATGNN!	1	3074
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	797; 2701; 3158; 3183; 3637
BseGI	!CATCC	7	266; 398; 683; 962; 1094; 1379; 2527
BseJI	GATNN!NNATC	2	1503; 2700
BseLI	CCNNNNN!NNGG	29	114; 205; 484; 550; 588; 629; 686; 810; 901; 1180; 1246; 1284; 1325; 1382; 1853; 2179; 2571; 2822; 3366; 3647; 3679; 3811; 3846; 3896; 3928; 4281; 4560; 4726; 4744
BseMI	GCAATGNN!	1	3074
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	38; 3967
BseMII	!NNNNNNNCTGAG	5	2312; 2614; 3495; 4067; 4476
BseNI	ACTGGN!	3	2785; 2986; 4232
BseNI	C!CAGT	4	1870; 2548; 4344; 4357
BsePI	G!CGCGC	2	648; 1344
BseRI	GAGGAGNNNNNNNNNN!	1	2659
BseRI	!NNNNNNNCTCCTC	0	
BseSI	GKGCN!C	10	75; 151; 311; 464; 847; 1007; 1160; 2787; 2880; 4449
BseXI	GCAGCNNNNNNNN!	8	305; 1001; 1629; 2914; 2956; 3477; 3930; 4430
BseXI	!NNNNNNNNNNNGCTGC	10	268; 686; 964; 1382; 2123; 2788; 2972; 3065; 4131; 4337
BseX3I	C!GGCCG	3	564; 1260; 2747
BseYI	C!CCAGC	5	523; 1219; 2384; 2456; 4455
BseYI	G!CTGGG	3	515; 1211; 3345
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	17	69; 650; 1346; 1490; 1765; 2141; 2161; 2185; 2216; 2907; 3208; 3646; 3730; 3793; 3862; 4135; 4716
Bsh1285I	CGRY!CG	7	89; 567; 597; 1263; 1293; 2750; 4425
BshFI	GG!CC	39	73; 107; 161; 274; 488; 566; 580; 643; 739; 748; 775; 803; 857; 970; 1184; 1262; 1276; 1339; 1435; 1444; 1471; 1487; 1807; 1949; 2604; 2610; 2619; 2662; 2749; 2923; 3314; 3341; 3850; 3907; 3940; 4285; 4719; 4737; 4748
BshNI	G!GYRCC	14	63; 148; 208; 241; 466; 599; 844; 904; 937; 1162; 1295; 1994; 2840; 2875
BshTI	A!CCGGT	1	84
BshVI	AT!CGAT	1	2681
BsiEI	CGRY!CG	7	89; 567; 597; 1263; 1293; 2750; 4425

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BsiHKAI	GWGCW!C	8	38; 311; 464; 1007; 1160; 2954; 3144; 4449
BsiHKCI	C!YCGRG	10	31; 74; 352; 544; 766; 787; 1048; 1240; 1462; 1481
BsiSI	C!CGG	34	19; 75; 85; 206; 567; 597; 630; 665; 687; 750; 788; 902; 1263; 1293; 1326; 1361; 1383; 1446; 2059; 2746; 2823; 2845; 2873; 3004; 3094; 3161; 3342; 3617; 3625; 3717; 4191; 4381; 4407; 4554
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	29	114; 205; 484; 550; 588; 629; 686; 810; 901; 1180; 1246; 1284; 1325; 1382; 1853; 2179; 2571; 2822; 3366; 3647; 3679; 3811; 3846; 3896; 3928; 4281; 4560; 4726; 4744
BsIFI	GGGACNNNNNNNNNN!	3	2992; 3524; 3633
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2357; 2429; 2493; 3788
BsmI	GAATGCN!	1	1592
BsmI	G!CATTC	1	1685
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	4	2265; 2683; 3702; 3830
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2992; 3524; 3633
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2357; 2429; 2493; 3788
BsnI	GG!CC	39	73; 107; 161; 274; 488; 566; 580; 643; 739; 748; 775; 803; 857; 970; 1184; 1262; 1276; 1339; 1435; 1444; 1471; 1487; 1807; 1949; 2604; 2610; 2619; 2662; 2749; 2923; 3314; 3341; 3850; 3907; 3940; 4285; 4719; 4737; 4748
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3830
BsoBI	C!YCGRG	10	31; 74; 352; 544; 766; 787; 1048; 1240; 1462; 1481
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	95; 2570; 3273
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	3644
Bsp24I	!NNNNNNCCANNNNNGTC	2	4065; 4243
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4097; 4275
Bsp24I	!NNNNNNNGACNNNNNTGG	1	3612
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	45; 3523
Bsp120I	G!GGCCC	1	71
Bsp143I	!GATC	26	27; 78; 323; 443; 605; 781; 1019; 1139; 1301; 1498; 2678; 2682; 2701; 3012; 3090; 3171; 3180; 3258; 3634; 3650; 4009; 4021; 4099; 4107; 4118; 4193
Bsp1286I	GDGCH!C	18	38; 75; 151; 311; 464; 524; 847; 1007; 1160; 1220; 2032; 2787; 2880; 2954; 3144; 3206; 3916; 4449
Bsp1407I	T!GTACA	2	137; 833
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	32	67; 317; 407; 479; 1013; 1103; 1175; 1488; 2156; 2159; 2173; 2263; 2511; 2523; 2532; 2544; 2554; 2565; 2611; 2750; 2813; 3315; 3360; 3426; 3452; 3577; 3580; 3728; 3860; 4167; 4311; 4807
BspACI	G!CGG	33	69; 104; 395; 509; 512; 563; 702; 800; 1091; 1205; 1208; 1259; 1398; 2101; 2128; 2216; 2326; 2907; 2971; 3072; 3075; 3355; 3410; 3508; 3646; 3793; 3933; 4176; 4421; 4542; 4561; 4688; 4716
BspCNI	CTCAGNNNNNNNN!	2	37; 3966
BspCNI	!NNNNNNNCTGAG	5	2313; 2615; 3496; 4068; 4477
BspDI	AT!CGAT	1	2681
BspD6I	GACTCNNNN!	5	30; 1500; 1914; 3520; 4397
BspD6I	!NNNNNGAGTC	2	1877; 2309
BspEI	T!CCGGA	0	
BspFNI	CG!CG	17	69; 650; 1346; 1490; 1765; 2141; 2161; 2185; 2216; 2907; 3208; 3646; 3730; 3793; 3862; 4135; 4716
BspHI	T!CATGA	2	2267; 4039
BspLI	GGN!NCC	34	65; 73; 80; 150; 210; 243; 275; 468; 489; 521; 601; 691; 846; 906; 939; 971; 1164; 1185; 1217; 1297; 1387; 1996; 2017; 2029; 2220; 2381; 2453; 2842; 2877; 3725; 3804; 3849; 4692; 4731
BspMI	ACCTGCNNNN!	4	770; 1466; 3109; 3559
BspMI	!NNNNNNNGCAGGT	1	2728
BspOI	GCTAG!C	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspPI	GGATCNNNN!	8	86; 2709; 3020; 3266; 3658; 4017; 4115; 4201
BspPI	!NNNNNGATCC	7	73; 318; 1014; 3085; 3629; 4016; 4113
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3185; 3395
BspTI	C!TTAAG	1	1723
BspT104I	TT!CGAA	2	45; 3523
BspT107I	G!GYRCC	14	63; 148; 208; 241; 466; 599; 844; 904; 937; 1162; 1295; 1994; 2840; 2875
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3830
BsrI	ACTGGN!	3	2785; 2986; 4232
BsrI	C!CAGT	4	1870; 2548; 4344; 4357
BsrBI	CCG!CTC	2	2265; 3454
BsrBI	GAG!CGG	6	104; 509; 800; 1205; 2101; 3508
BsrDI	GCAATGNN!	1	3074
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	9	84; 205; 596; 901; 1292; 2058; 3160; 3341; 3624
BsrGI	T!GTACA	2	137; 833
BsrSI	ACTGGN!	3	2785; 2986; 4232
BsrSI	C!CAGT	4	1870; 2548; 4344; 4357
BssAI	R!CCGGY	9	84; 205; 596; 901; 1292; 2058; 3160; 3341; 3624
BssECI	C!CNNGG	26	67; 74; 95; 236; 353; 365; 530; 787; 932; 1049; 1061; 1226; 2375; 2447; 2570; 2605; 2614; 2663; 3004; 3273; 3678; 3805; 3806; 3908; 3909; 4599
BssHII	G!CGCGC	2	648; 1344
BssKI	!CCNGG	29	73; 74; 269; 364; 413; 425; 663; 748; 786; 787; 965; 1060; 1109; 1121; 1359; 1444; 2375; 2430; 2447; 2843; 3003; 3226; 3616; 3805; 3908; 4380; 4598; 4611; 4732
BssMI	!GATC	26	27; 78; 323; 443; 605; 781; 1019; 1139; 1301; 1498; 2678; 2682; 2701; 3012; 3090; 3171; 3180; 3258; 3634; 3650; 4009; 4021; 4099; 4107; 4118; 4193
BssNI	GR!CGYC	5	242; 938; 2841; 3543; 3622
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3559; 4586
BssSI	C!TCGTG	1	3433
BssTII	C!CWWGG	5	95; 2570; 2663; 3273; 3678
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2308; 3185; 3395
Bst98I	C!TTAAG	1	1723
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	5	242; 938; 2841; 3543; 3622
BstAFI	C!TTAAG	1	1723
BstAPI	GCANNNN!NTGC	3	2408; 2480; 3942
BstAUI	T!GTACA	2	137; 833
BstBI	TT!CGAA	2	45; 3523
Bst2BI	C!ACGAG	2	3559; 4586
Bst2BI	C!TCGTG	1	3433
BstBAI	YAC!GTR	4	231; 927; 1957; 3145
Bst4CI	ACN!GT	11	63; 153; 849; 1932; 3221; 3337; 3445; 3768; 4259; 4729; 4800
BstC8I	GCN!NGC	35	71; 109; 207; 556; 650; 741; 805; 903; 1252; 1346; 1437; 2060; 2103; 2117; 2390; 2409; 2462; 2481; 2735; 2921; 3140; 3206; 3212; 3244; 3285; 3289; 3343; 3626; 3813; 3860; 3916; 3938; 4149; 4709; 4746
BstDEI	C!TNAG	7	24; 2321; 2623; 3504; 3953; 4076; 4485
BstDSI	C!CRYGG	4	67; 95; 2570; 3273
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	2	112; 808
BstF5I	GGATGNN!	5	797; 2701; 3158; 3183; 3637
BstF5I	!CATCC	7	266; 398; 683; 962; 1094; 1379; 2527
BstFNI	CG!CG	17	69; 650; 1346; 1490; 1765; 2141; 2161; 2185; 2216; 2907; 3208; 3646; 3730; 3793; 3862; 4135; 4716
BstH2I	RGCGC!Y	7	16; 245; 941; 2108; 2116; 2844; 4519
BstHHI	GCG!C	29	15; 128; 244; 650; 652; 824; 940; 1346; 1348; 2107; 2115; 2141; 2163; 2172; 2185; 2216; 2835; 2843; 2907; 2944; 3210; 3470; 3646; 3732; 4135; 4244; 4418; 4518; 4585

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstKTI	GAT!C	26	30; 81; 326; 446; 608; 784; 1022; 1142; 1304; 1501; 2681; 2685; 2704; 3015; 3093; 3174; 3183; 3261; 3637; 3653; 4012; 4024; 4102; 4110; 4121; 4196
BstMAI	GTCTCN!	0	
BstMAI	!NNNNGAGAC	4	2265; 2683; 3702; 3830
BstMBI	!GATC	26	27; 78; 323; 443; 605; 781; 1019; 1139; 1301; 1498; 2678; 2682; 2701; 3012; 3090; 3171; 3180; 3258; 3634; 3650; 4009; 4021; 4099; 4107; 4118; 4193
BstMCI	CGRY!CG	7	89; 567; 597; 1263; 1293; 2750; 4425
BstMWI	GCNNNNN!NNGC	35	215; 290; 431; 560; 632; 649; 696; 745; 911; 986; 1127; 1256; 1328; 1345; 1392; 1441; 2068; 2098; 2125; 2167; 2408; 2480; 2531; 2610; 2832; 2916; 2939; 3078; 3201; 3284; 3551; 3738; 3942; 4141; 4713
BstNI	CC!WGG	17	271; 366; 415; 427; 967; 1062; 1111; 1123; 2377; 2432; 2449; 3228; 3807; 3910; 4600; 4613; 4734
BstNSI	RCATG!Y	4	2411; 2483; 3246; 4763
BstOI	CC!WGG	17	271; 366; 415; 427; 967; 1062; 1111; 1123; 2377; 2432; 2449; 3228; 3807; 3910; 4600; 4613; 4734
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	29	73; 74; 269; 364; 413; 425; 663; 748; 786; 787; 965; 1060; 1109; 1121; 1359; 1444; 2375; 2430; 2447; 2843; 3003; 3226; 3616; 3805; 3908; 4380; 4598; 4611; 4732
BstSFI	C!TRYAG	4	52; 2176; 4303; 4494
BstSLI	GKGC!C	10	75; 151; 311; 464; 847; 1007; 1160; 2787; 2880; 4449
BstSNI	TAC!GTA	0	
BstUI	CG!CG	17	69; 650; 1346; 1490; 1765; 2141; 2161; 2185; 2216; 2907; 3208; 3646; 3730; 3793; 3862; 4135; 4716
Bst2UI	CC!WGG	17	271; 366; 415; 427; 967; 1062; 1111; 1123; 2377; 2432; 2449; 3228; 3807; 3910; 4600; 4613; 4734
BstVII	GCAGC!NNNNNNN!	8	305; 1001; 1629; 2914; 2956; 3477; 3930; 4430
BstVII	!NNNNNNNNNNNGCTGC	10	268; 686; 964; 1382; 2123; 2788; 2972; 3065; 4131; 4337
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANN!NTGG	0	
BstX2I	R!GATCY	12	27; 78; 323; 781; 1019; 3012; 3258; 3650; 4009; 4021; 4107; 4118
BstYI	R!GATCY	12	27; 78; 323; 781; 1019; 3012; 3258; 3650; 4009; 4021; 4107; 4118
BstZI	C!GGCCG	3	564; 1260; 2747
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2270; 3060; 4561
BsuI	!NNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2681
Bsu36I	CC!TNAGG	2	2321; 3953
BsuRI	GG!CC	39	73; 107; 161; 274; 488; 566; 580; 643; 739; 748; 775; 803; 857; 970; 1184; 1262; 1276; 1339; 1435; 1444; 1471; 1487; 1807; 1949; 2604; 2610; 2619; 2662; 2749; 2923; 3314; 3341; 3850; 3907; 3940; 4285; 4719; 4737; 4748
BsuTUI	AT!CGAT	1	2681
BtgI	C!CRYGG	4	67; 95; 2570; 3273
BtgZI	GCGATGNNNNNNNNN!	2	1958; 3293
BtgZI	!NNNNNNNNNNNNNCATCGC	2	3112; 3456
BthCI	GCNG!C	45	107; 284; 296; 398; 512; 515; 566; 702; 803; 980; 992; 1094; 1208; 1211; 1262; 1398; 1490; 1620; 2139; 2161; 2175; 2613; 2752; 2804; 2815; 2905; 2910; 2947; 2988; 3075; 3078; 3081; 3317; 3413; 3454; 3468; 3582; 3921; 3936; 4147; 4353; 4356; 4421; 4564; 4719
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1680
BtsCI	GGATGNN!	5	797; 2701; 3158; 3183; 3637
BtsCI	!CATCC	7	266; 398; 683; 962; 1094; 1379; 2527
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	770; 1466; 3109; 3559
BveI	!NNNNNNNNGCAGGT	1	2728



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cac8I	GCN!NGC	35	71; 109; 207; 556; 650; 741; 805; 903; 1252; 1346; 1437; 2060; 2103; 2117; 2390; 2409; 2462; 2481; 2735; 2921; 3140; 3206; 3212; 3244; 3285; 3289; 3343; 3626; 3813; 3860; 3916; 3938; 4149; 4709; 4746
CaiI	CAGNNN!CTG	4	699; 1395; 3942; 4350
CciI	T!CATGA	2	2267; 4039
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	4	3130; 3135; 3333; 3474
CdiI	C!GATG	2	1944; 3279
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4713
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	2	2502; 2544
CelII	GC!TNAGC	0	
CfoI	GCG!C	29	15; 128; 244; 650; 652; 824; 940; 1346; 1348; 2107; 2115; 2141; 2163; 2172; 2185; 2216; 2835; 2843; 2907; 2944; 3210; 3470; 3646; 3732; 4135; 4244; 4418; 4518; 4585
CfrI	Y!GGCCR	8	159; 564; 855; 1260; 2747; 2921; 3312; 3339
Cfr9I	C!CCGGG	2	74; 787
Cfr10I	R!CCGGY	9	84; 205; 596; 901; 1292; 2058; 3160; 3341; 3624
Cfr13I	G!GNCC	18	71; 72; 273; 299; 487; 579; 747; 969; 995; 1183; 1275; 1443; 1948; 3357; 3802; 3848; 3906; 3939
Cfr42I	CCGC!GG	1	70
ChaI	GATC!	26	31; 82; 327; 447; 609; 785; 1023; 1143; 1305; 1502; 2682; 2686; 2705; 3016; 3094; 3175; 3184; 3262; 3638; 3654; 4013; 4025; 4103; 4111; 4122; 4197
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	2658; 4098; 4198; 4276
CjeI	!NNNNNNNNNACNNNNNNNTGG	5	2325; 2420; 3612; 4162; 4717
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	5	2359; 2454; 3646; 4196; 4751
CjeI	!NNNNNNNNCCANNNNNNGT	4	2624; 4064; 4164; 4242
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	4	801; 1497; 4098; 4276
CjePI	!NNNNNNNNGANNNNNNNTGG	2	3612; 4211
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	2	3645; 4244
CjePI	!NNNNNNNNCCANNNNNNNNTC	4	768; 1464; 4065; 4243
ClaI	AT!CGAT	1	2681
CpoI	CG!GWCCG	1	3357
CseI	GACGCNNNNN!	2	3551; 3630
CseI	!NNNNNNNNNNGCGTC	3	2174; 4069; 4647
CsiI	A!CCWGGT	1	2430
CspI	CG!GWCCG	1	3357
Csp6I	G!TAC	14	64; 138; 288; 540; 720; 732; 753; 834; 984; 1236; 1416; 1428; 1449; 3146
Csp45I	TT!CGAA	2	45; 3523
CspAI	A!CCGGT	1	84
CspCI	CAANNNNNGTGGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	4	140; 836; 2121; 3730
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	20	96; 141; 219; 660; 837; 915; 1356; 2268; 2408; 2480; 2571; 2712; 3057; 3243; 3274; 3300; 3656; 4040; 4760; 4811
CviJI	RG!CY	108	36; 42; 73; 107; 161; 274; 347; 359; 425; 488; 515; 522; 566; 580; 626; 643; 668; 690; 729; 739; 748; 775; 803; 857; 970; 1043; 1055; 1121; 1184; 1211; 1218; 1262; 1276; 1322; 1339; 1364; 1386; 1425; 1435; 1444; 1471; 1487; 1510; 1620; 1787; 1807; 1949; 2030; 2044; 2058; 2339; 2380; 2452; 2575; 2604; 2610; 2619; 2627; 2650; 2662; 2668; 2749; 2766; 2774; 2801; 2826; 2910; 2919; 2923; 2947; 2985; 3061; 3078; 3097; 3160; 3204; 3214; 3231; 3314; 3341; 3345; 3382; 3405; 3421; 3601; 3628; 3689; 3811; 3850; 3907; 3914; 3921; 3940; 3951; 4202; 4231; 4274; 4285; 4350; 4429; 4454; 4459; 4505; 4595; 4693; 4719; 4737; 4748

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	108	36; 42; 73; 107; 161; 274; 347; 359; 425; 488; 515; 522; 566; 580; 626; 643; 668; 690; 729; 739; 748; 775; 803; 857; 970; 1043; 1055; 1121; 1184; 1211; 1218; 1262; 1276; 1322; 1339; 1364; 1386; 1425; 1435; 1444; 1471; 1487; 1510; 1620; 1787; 1807; 1949; 2030; 2044; 2058; 2339; 2380; 2452; 2575; 2604; 2610; 2619; 2627; 2650; 2662; 2668; 2749; 2766; 2774; 2801; 2826; 2910; 2919; 2923; 2947; 2985; 3061; 3078; 3097; 3160; 3204; 3214; 3231; 3314; 3341; 3345; 3382; 3405; 3421; 3601; 3628; 3689; 3811; 3850; 3907; 3914; 3921; 3940; 3951; 4202; 4231; 4274; 4285; 4350; 4429; 4454; 4459; 4505; 4595; 4693; 4719; 4737; 4748
CviQI	G!TAC	14	64; 138; 288; 540; 720; 732; 753; 834; 984; 1236; 1416; 1428; 1449; 3146
DdeI	C!TNAG	7	24; 2321; 2623; 3504; 3953; 4076; 4485
DinI	GGC!GCC	3	243; 939; 2842
DpnI	GA!TC	26	29; 80; 325; 445; 607; 783; 1021; 1141; 1303; 1500; 2680; 2684; 2703; 3014; 3092; 3173; 3182; 3260; 3636; 3652; 4011; 4023; 4101; 4109; 4120; 4195
DpnII	!GATC	26	27; 78; 323; 443; 605; 781; 1019; 1139; 1301; 1498; 2678; 2682; 2701; 3012; 3090; 3171; 3180; 3258; 3634; 3650; 4009; 4021; 4099; 4107; 4118; 4193
DraI	TTT!AAA	3	1543; 3985; 4004
DraII	RG!GNCCY	3	299; 995; 3939
DraIII	CACNNN!GTG	1	1957
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	1	4321
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1912; 2868; 4657
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1912; 2868; 4657
EaeI	Y!GGCCR	8	159; 564; 855; 1260; 2747; 2921; 3312; 3339
EagI	C!GGCCG	3	564; 1260; 2747
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2308; 3185; 3395
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	3	2308; 3185; 3395
EciI	GGCGGANNNNNNNNNNNN!	4	2341; 3370; 4557; 4703
EciI	!NNNNNNNNNTCCGCC	3	2512; 2533; 2554
Ecl136II	GAG!CTC	1	36
EclXI	C!GGCCG	3	564; 1260; 2747
Eco24I	GRGCY!C	7	38; 75; 524; 1220; 2032; 3206; 3916
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	3830
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	299; 995; 3357; 3802
Eco47III	AGC!GCT	1	14
Eco52I	C!GGCCG	3	564; 1260; 2747
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	6	133; 604; 829; 1300; 2987; 3419
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	1	4217
Eco72I	CAC!GTG	2	231; 927
Eco81I	CC!TNAGG	2	2321; 3953
Eco88I	C!YCGRG	10	31; 74; 352; 544; 766; 787; 1048; 1240; 1462; 1481
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWVGG	5	95; 2570; 2663; 3273; 3678
Eco147I	AGG!CCT	1	2662
EcoHI	!CCSGG	12	73; 74; 663; 748; 786; 787; 1359; 1444; 2843; 3003; 3616; 4380
EcoICRI	GAG!CTC	1	36
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	9	133; 448; 604; 829; 1144; 1300; 2987; 3419; 3681
Eco57MI	!NNNNNNNNNNNNNNNNCTYCAG	4	676; 1372; 3624; 4217
EcoNI	CCTNN!NNNAGG	2	112; 808
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	3	299; 995; 3939
EcoRI	G!AATTC	1	47

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EcoRII	!CCWGG	17	269; 364; 413; 425; 965; 1060; 1109; 1121; 2375; 2430; 2447; 3226; 3805; 3908; 4598; 4611; 4732
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	95; 2570; 2663; 3273; 3678
EcoT22I	ATGCA!T	3	2413; 2485; 4816
EcoT38I	GRGCY!C	7	38; 75; 524; 1220; 2032; 3206; 3916
Eco53kI	GAG!CTC	1	36
EgeI	GGC!GCC	3	243; 939; 2842
EheI	GGC!GCC	3	243; 939; 2842
ErhI	C!CWWGG	5	95; 2570; 2663; 3273; 3678
EsaBC3I	TC!GA	19	33; 46; 59; 264; 726; 960; 1422; 1483; 1991; 2682; 2955; 3111; 3135; 3171; 3333; 3524; 3569; 3824; 4662
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	20	99; 144; 222; 663; 840; 918; 1359; 2271; 2411; 2483; 2574; 2715; 3060; 3246; 3277; 3303; 3659; 4043; 4763; 4814
Fail	YA!TR	46	97; 124; 142; 220; 661; 820; 838; 916; 1357; 1503; 1513; 1579; 1624; 1829; 2257; 2269; 2400; 2409; 2472; 2481; 2505; 2572; 2596; 2713; 2777; 3058; 3083; 3244; 3275; 3301; 3373; 3589; 3657; 3735; 3787; 3948; 3965; 3967; 3969; 4041; 4319; 4508; 4624; 4697; 4761; 4812
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	3	363; 1059; 3181
FalI	!NNNNNNNNNAAGNNNNNCTT	3	331; 1027; 3149
FaqI	GGGACNNNNNNNNNN!	3	2992; 3524; 3633
FaqI	!NNNNNNNNNNNNNGTCCC	4	2357; 2429; 2493; 3788
FatI	!CATG	20	95; 140; 218; 659; 836; 914; 1355; 2267; 2407; 2479; 2570; 2711; 3056; 3242; 3273; 3299; 3655; 4039; 4759; 4810
FauI	CCCGCNNNN!	7	486; 1182; 2163; 2518; 2539; 3735; 3867
FauI	!NNNNNGCGGG	6	62; 2094; 2964; 3501; 3639; 3786
FauNDI	CA!TATG	0	
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	58
FmuI	GGNC!C	18	74; 75; 276; 302; 490; 582; 750; 972; 998; 1186; 1278; 1446; 1951; 3360; 3805; 3851; 3909; 3942
Fnu4HI	GC!NGC	45	105; 282; 294; 396; 510; 513; 564; 700; 801; 978; 990; 1092; 1206; 1209; 1260; 1396; 1488; 1618; 2137; 2159; 2173; 2611; 2750; 2802; 2813; 2903; 2908; 2945; 2986; 3073; 3076; 3079; 3315; 3411; 3452; 3466; 3580; 3919; 3934; 4145; 4351; 4354; 4419; 4562; 4717
FokI	GGATGNNNNNNNNNN!	5	804; 2708; 3165; 3190; 3644
FokI	!NNNNNNNNNNNNNCATCC	7	253; 385; 670; 949; 1081; 1366; 2514
FriOI	GRGCY!C	7	38; 75; 524; 1220; 2032; 3206; 3916
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	3	127; 823; 2943
FspAI	RTGC!GCAY	2	127; 823
FspBI	C!TAG	8	10; 1496; 1690; 2108; 2664; 3679; 4013; 4266
FspEI	CCNNNNNNNNNNNN!	172	32; 80; 95; 121; 165; 211; 225; 241; 258; 273; 288; 315; 330; 364; 378; 393; 415; 435; 454; 483; 502; 536; 556; 580; 594; 610; 625; 643; 657; 672; 693; 753; 775; 789; 817; 861; 907; 921; 937; 954; 969; 984; 1011; 1026; 1060; 1074; 1089; 1111; 1131; 1150; 1179; 1198; 1232; 1252; 1276; 1290; 1306; 1321; 1339; 1353; 1368; 1389; 1449; 1471; 1485; 1501; 1524; 1563; 1577; 1718; 1813; 1837; 1860; 1883; 1901; 1923; 1944; 1963; 1982; 2011; 2032; 2046; 2072; 2160; 2186; 2235; 2276; 2294; 2333; 2349; 2387; 2444; 2459; 2516; 2536; 2550; 2567; 2581; 2618; 2633; 2676; 2759; 2826; 2857; 2877; 2892; 2937; 2951; 3017; 3031; 3050; 3066; 3107; 3127; 3174; 3224; 3240; 3260; 3285; 3305; 3328; 3355; 3373; 3399; 3439; 3465; 3489; 3545; 3559; 3587; 3630; 3651; 3686; 3730; 3818; 3842; 3864; 3884; 3900; 3921; 3935; 3954; 4038; 4058; 4086; 4101; 4135; 4177; 4204; 4219; 4264; 4288; 4302; 4324; 4350; 4370; 4394; 4420; 4468; 4487; 4506; 4532; 4567; 4612; 4642; 4656; 4707; 4721; 4746; 4762; 4783; 4812

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	!NNNNNNNNNNNNNNNNNGG	138	4; 46; 70; 89; 100; 127; 163; 191; 223; 256; 275; 340; 373; 400; 436; 470; 494; 517; 536; 562; 582; 615; 650; 672; 697; 721; 757; 778; 796; 823; 859; 887; 919; 952; 971; 1036; 1069; 1096; 1132; 1166; 1190; 1213; 1232; 1258; 1278; 1311; 1346; 1368; 1393; 1417; 1453; 1512; 1612; 1681; 1711; 1789; 1838; 1860; 1888; 1924; 1969; 1998; 2034; 2053; 2081; 2101; 2164; 2187; 2295; 2327; 2345; 2374; 2417; 2446; 2557; 2586; 2629; 2650; 2678; 2711; 2731; 2756; 2783; 2808; 2830; 2858; 2884; 2905; 2956; 2977; 2995; 3043; 3079; 3135; 3160; 3184; 3213; 3236; 3260; 3286; 3308; 3327; 3352; 3392; 3428; 3493; 3578; 3602; 3631; 3665; 3686; 3706; 3751; 3778; 3797; 3830; 3882; 3913; 3940; 3992; 4090; 4161; 4206; 4267; 4332; 4366; 4392; 4410; 4446; 4516; 4539; 4561; 4585; 4618; 4666; 4701; 4719; 4776
Fsp4HI	GC!NGC	45	105; 282; 294; 396; 510; 513; 564; 700; 801; 978; 990; 1092; 1206; 1209; 1260; 1396; 1488; 1618; 2137; 2159; 2173; 2611; 2750; 2802; 2813; 2903; 2908; 2945; 2986; 3073; 3076; 3079; 3315; 3411; 3452; 3466; 3580; 3919; 3934; 4145; 4351; 4354; 4419; 4562; 4717
GdiII	C!GGCCR	5	159; 564; 855; 1260; 2747
GdiII	Y!GGCCG	5	564; 1260; 2747; 3312; 3339
GlaI	GC!GC	29	14; 127; 243; 649; 651; 823; 939; 1345; 1347; 2106; 2114; 2140; 2162; 2171; 2184; 2215; 2834; 2842; 2906; 2943; 3209; 3469; 3645; 3731; 4134; 4243; 4417; 4517; 4584
GluI	GC!NGC	45	105; 282; 294; 396; 510; 513; 564; 700; 801; 978; 990; 1092; 1206; 1209; 1260; 1396; 1488; 1618; 2137; 2159; 2173; 2611; 2750; 2802; 2813; 2903; 2908; 2945; 2986; 3073; 3076; 3079; 3315; 3411; 3452; 3466; 3580; 3919; 3934; 4145; 4351; 4354; 4419; 4562; 4717
GsaI	CCCAG!C	5	527; 1223; 2388; 2460; 4459
GsaI	GCTGG!G	3	519; 1215; 3349
GsuI	CTGGAGNNNNNNNNNNNNNN!	3	448; 1144; 3681
GsuI	!NNNNNNNNNNNNNNCTCCAG	3	676; 1372; 3624
HaeI	WGG!CCW	9	739; 775; 1435; 1471; 2662; 2923; 4285; 4737; 4748
HaeII	RGCGC!Y	7	16; 245; 941; 2108; 2116; 2844; 4519
HaeIII	GG!CC	39	73; 107; 161; 274; 488; 566; 580; 643; 739; 748; 775; 803; 857; 970; 1184; 1262; 1276; 1339; 1435; 1444; 1471; 1487; 1807; 1949; 2604; 2610; 2619; 2662; 2749; 2923; 3314; 3341; 3850; 3907; 3940; 4285; 4719; 4737; 4748
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1516; 3037
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1482; 3003
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1515; 3036
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1484; 3005
HapII	C!CGG	34	19; 75; 85; 206; 567; 597; 630; 665; 687; 750; 788; 902; 1263; 1293; 1326; 1361; 1383; 1446; 2059; 2746; 2823; 2845; 2873; 3004; 3094; 3161; 3342; 3617; 3625; 3717; 4191; 4381; 4407; 4554
HgaI	GACGCNNNNN!	2	3551; 3630
HgaI	!NNNNNNNNNNNGCGTC	3	2174; 4069; 4647
HhaI	GCG!C	29	15; 128; 244; 650; 652; 824; 940; 1346; 1348; 2107; 2115; 2141; 2163; 2172; 2185; 2216; 2835; 2843; 2907; 2944; 3210; 3470; 3646; 3732; 4135; 4244; 4418; 4518; 4585
HinI	GR!CGYC	5	242; 938; 2841; 3543; 3622
HinIII	CATG!	20	99; 144; 222; 663; 840; 918; 1359; 2271; 2411; 2483; 2574; 2715; 3060; 3246; 3277; 3303; 3659; 4043; 4763; 4814
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1515; 3036
Hin4I	!NNNNNNNNGABNNNNNRTC	3	1483; 3004; 3034
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1515; 3036; 3066
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	1483; 3004
Hin6I	G!CGC	29	13; 126; 242; 648; 650; 822; 938; 1344; 1346; 2105; 2113; 2139; 2161; 2170; 2183; 2214; 2833; 2841; 2905; 2942; 3208; 3468; 3644; 3730; 4133; 4242; 4416; 4516; 4583
HinP1I	G!CGC	29	13; 126; 242; 648; 650; 822; 938; 1344; 1346; 2105; 2113; 2139; 2161; 2170; 2183; 2214; 2833; 2841; 2905; 2942; 3208; 3468; 3644; 3730; 4133; 4242; 4416; 4516; 4583
HincII	GTY!RAC	2	59; 1604
HindII	GTY!RAC	2	59; 1604
HindIII	A!AGCTT	1	40

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HinfI	G!ANTC	14	22; 224; 920; 1492; 1884; 1906; 2316; 3326; 3460; 3512; 3570; 3607; 4389; 4785
HpaI	GTT!AAC	1	1604
HpaII	C!CGG	34	19; 75; 85; 206; 567; 597; 630; 665; 687; 750; 788; 902; 1263; 1293; 1326; 1361; 1383; 1446; 2059; 2746; 2823; 2845; 2873; 3004; 3094; 3161; 3342; 3617; 3625; 3717; 4191; 4381; 4407; 4554
HphI	GGTGANNNNNNNN!	6	111; 465; 807; 1161; 3912; 4028
HphI	!NNNNNNNTCACC	6	354; 669; 1050; 1365; 1958; 3019
Hpy8I	GTN!NAC	14	59; 156; 309; 462; 540; 852; 1005; 1158; 1236; 1604; 1888; 1905; 1960; 4447
Hpy99I	CGWCG!	12	63; 193; 487; 889; 1183; 2931; 2959; 3253; 3268; 3545; 3930; 4663
Hpy166II	GTN!NAC	14	59; 156; 309; 462; 540; 852; 1005; 1158; 1236; 1604; 1888; 1905; 1960; 4447
Hpy188I	TCN!GA	11	27; 2015; 2624; 2808; 3152; 3505; 3606; 4085; 4219; 4572; 4650
Hpy188III	TC!NNGA	27	31; 132; 402; 693; 828; 1098; 1389; 1496; 2268; 2320; 2633; 2686; 2859; 3175; 3184; 3267; 3323; 3367; 3457; 3490; 3559; 4040; 4114; 4197; 4295; 4393; 4527
HpyAV	CCTTCNNNNNN!	9	210; 264; 312; 906; 960; 1008; 3486; 3593; 4272
HpyAV	!NNNNNGAAGG	19	108; 450; 579; 633; 705; 765; 804; 1146; 1275; 1329; 1401; 1461; 2074; 2969; 3698; 3714; 3897; 4214; 4524
HpyCH4III	ACN!GT	11	63; 153; 849; 1932; 3221; 3337; 3445; 3768; 4259; 4729; 4800
HpyCH4IV	A!CGT	12	230; 572; 926; 1268; 1901; 1913; 1956; 2066; 2957; 3144; 3925; 4058
HpyCH4V	TG!CA	21	54; 309; 462; 1005; 1158; 1590; 1617; 1685; 2402; 2411; 2474; 2483; 2598; 2674; 2733; 2892; 3067; 3081; 4151; 4447; 4814
HpyF3I	C!TNAG	7	24; 2321; 2623; 3504; 3953; 4076; 4485
HpyF10VI	GCNNNNN!NNGC	35	215; 290; 431; 560; 632; 649; 696; 745; 911; 986; 1127; 1256; 1328; 1345; 1392; 1441; 2068; 2098; 2125; 2167; 2408; 2480; 2531; 2610; 2832; 2916; 2939; 3078; 3201; 3284; 3551; 3738; 3942; 4141; 4713
Hsp92I	GR!CGYC	5	242; 938; 2841; 3543; 3622
Hsp92II	CATG!	20	99; 144; 222; 663; 840; 918; 1359; 2271; 2411; 2483; 2574; 2715; 3060; 3246; 3277; 3303; 3659; 4043; 4763; 4814
HspAI	G!CGC	29	13; 126; 242; 648; 650; 822; 938; 1344; 1346; 2105; 2113; 2139; 2161; 2170; 2183; 2214; 2833; 2841; 2905; 2942; 3208; 3468; 3644; 3730; 4133; 4242; 4416; 4516; 4583
KasI	G!GCGCC	3	241; 937; 2840
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	67
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	70
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1604
Kzo9I	!GATC	26	27; 78; 323; 443; 605; 781; 1019; 1139; 1301; 1498; 2678; 2682; 2701; 3012; 3090; 3171; 3180; 3258; 3634; 3650; 4009; 4021; 4099; 4107; 4118; 4193
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	3185; 3395
LpnI	RGC!GCY	7	14; 243; 939; 2106; 2114; 2842; 4517
LpnPI	CCDGNNNNNNNNN!	81	32; 88; 121; 219; 262; 283; 378; 415; 435; 454; 537; 580; 595; 610; 636; 667; 700; 753; 775; 801; 817; 915; 958; 979; 1074; 1111; 1131; 1150; 1233; 1276; 1291; 1306; 1332; 1363; 1396; 1449; 1471; 1578; 1883; 2072; 2295; 2333; 2349; 2389; 2444; 2461; 2561; 2646; 2759; 2836; 2858; 2881; 3017; 3031; 3050; 3107; 3174; 3224; 3240; 3297; 3355; 3564; 3630; 3654; 3730; 3819; 3922; 3955; 4186; 4204; 4350; 4370; 4394; 4420; 4469; 4567; 4612; 4642; 4721; 4746; 4783
LpnPI	!NNNNNNNNNNNNNCHGG	68	4; 60; 191; 256; 282; 351; 400; 501; 552; 582; 615; 650; 672; 735; 773; 887; 952; 978; 1047; 1096; 1197; 1248; 1278; 1311; 1346; 1368; 1431; 1924; 2044; 2101; 2164; 2362; 2374; 2434; 2446; 2678; 2723; 2766; 2808; 2830; 2858; 2905; 2967; 2989; 3079; 3146; 3169; 3213; 3308; 3327; 3352; 3501; 3602; 3645; 3702; 3792; 3895; 3922; 3940; 4176; 4213; 4366; 4392; 4532; 4550; 4585; 4666; 4719
Lsp1109I	GCAGCNNNNNNNN!	8	305; 1001; 1629; 2914; 2956; 3477; 3930; 4430
Lsp1109I	!NNNNNNNNNNNGCTGC	10	268; 686; 964; 1382; 2123; 2788; 2972; 3065; 4131; 4337

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LweI	GCATCNNNNN!	10	137; 407; 833; 1103; 1657; 2420; 2492; 3140; 3204; 3479
LweI	!NNNNNNNNNGATGC	6	686; 1382; 2799; 3054; 3270; 4662
MabI	A!CCWGGT	1	2430
MaeI	C!TAG	8	10; 1496; 1690; 2108; 2664; 3679; 4013; 4266
MaeII	A!CGT	12	230; 572; 926; 1268; 1901; 1913; 1956; 2066; 2957; 3144; 3925; 4058
MaeIII	!GTNAC	11	231; 927; 1629; 2130; 2142; 2961; 3267; 3957; 4223; 4339; 4402
MalI	GA!TC	26	29; 80; 325; 445; 607; 783; 1021; 1141; 1303; 1500; 2680; 2684; 2703; 3014; 3092; 3173; 3182; 3260; 3636; 3652; 4011; 4023; 4101; 4109; 4120; 4195
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2265; 3454
MbiI	GAG!CGG	6	104; 509; 800; 1205; 2101; 3508
MboI	!GATC	26	27; 78; 323; 443; 605; 781; 1019; 1139; 1301; 1498; 2678; 2682; 2701; 3012; 3090; 3171; 3180; 3258; 3634; 3650; 4009; 4021; 4099; 4107; 4118; 4193
MboII	GAAGANNNNNNN!	9	510; 717; 1206; 1413; 2097; 2325; 3202; 3412; 4031
MboII	!NNNNNNNTCTTC	6	327; 1023; 3492; 3659; 3859; 4102
McaTI	GCGC!GC	2	651; 1347
MfeI	C!AATTG	1	1591
MfiI	R!GATCY	12	27; 78; 323; 781; 1019; 3012; 3258; 3650; 4009; 4021; 4107; 4118
MhII	GDGCH!C	18	38; 75; 151; 311; 464; 524; 847; 1007; 1160; 1220; 2032; 2787; 2880; 2954; 3144; 3206; 3916; 4449
MisI	TGG!CCA	1	2923
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2923
MlyI	GAGTCNNNNN!	2	1893; 2325
MlyI	!NNNNNGACTC	5	16; 1486; 1900; 3506; 4383
Mly113I	GG!CGCC	3	242; 938; 2841
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1934
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4366; 4550
MnlI	CCTCNNNNNNN!	7	1560; 2624; 3442; 3648; 3962; 4332; 4656
MnlI	!NNNNNGAGG	29	138; 171; 231; 348; 381; 423; 525; 729; 834; 867; 927; 1044; 1077; 1119; 1221; 1425; 1477; 1520; 1985; 2316; 2594; 2637; 2652; 2692; 2756; 2892; 3249; 3679; 4582
Mph1103I	ATGCA!T	3	2413; 2485; 4816
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	5	205; 901; 2058; 3341; 3624
MroXI	GAANN!NN TTC	0	
MscI	TGG!CCA	1	2923
MseI	T!TAA	14	1542; 1603; 1724; 1745; 1756; 1768; 1779; 1796; 1894; 2165; 3984; 3998; 4003; 4055
MslI	CAYNN!NNRTG	6	97; 133; 532; 829; 1228; 3278
MspI	C!CGG	34	19; 75; 85; 206; 567; 597; 630; 665; 687; 750; 788; 902; 1263; 1293; 1326; 1361; 1383; 1446; 2059; 2746; 2823; 2845; 2873; 3004; 3094; 3161; 3342; 3617; 3625; 3717; 4191; 4381; 4407; 4554
Msp20I	TGG!CCA	1	2923
MspA1I	CMG!CKG	5	69; 2339; 2947; 4176; 4421
MspCI	C!TTAAG	1	1723

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	254	22; 36; 49; 80; 97; 120; 139; 153; 183; 218; 231; 248; 261; 282; 297; 318; 332; 351; 364; 377; 395; 414; 427; 453; 475; 490; 504; 528; 542; 556; 579; 594; 609; 635; 648; 661; 676; 692; 705; 729; 747; 761; 774; 788; 801; 816; 835; 849; 879; 914; 927; 944; 957; 978; 993; 1014; 1028; 1047; 1060; 1073; 1091; 1110; 1123; 1149; 1171; 1186; 1200; 1224; 1238; 1252; 1275; 1290; 1305; 1331; 1344; 1357; 1372; 1388; 1401; 1425; 1443; 1457; 1470; 1484; 1501; 1514; 1529; 1548; 1565; 1578; 1619; 1633; 1646; 1664; 1702; 1717; 1735; 1776; 1800; 1820; 1838; 1859; 1882; 1914; 1929; 1951; 1969; 1982; 2003; 2020; 2033; 2046; 2062; 2075; 2105; 2120; 2145; 2163; 2176; 2191; 2215; 2229; 2253; 2278; 2294; 2332; 2348; 2387; 2401; 2415; 2443; 2459; 2473; 2487; 2516; 2529; 2550; 2559; 2581; 2611; 2627; 2645; 2675; 2698; 2722; 2746; 2765; 2793; 2819; 2835; 2848; 2871; 2885; 2905; 2918; 2932; 2951; 2965; 2978; 2994; 3009; 3022; 3038; 3053; 3069; 3094; 3113; 3129; 3142; 3155; 3173; 3187; 3201; 3217; 3239; 3255; 3274; 3296; 3312; 3335; 3354; 3368; 3384; 3398; 3418; 3434; 3447; 3469; 3502; 3516; 3536; 3549; 3563; 3617; 3630; 3653; 3666; 3685; 3702; 3729; 3765; 3798; 3817; 3842; 3863; 3890; 3903; 3920; 3934; 3949; 3965; 4025; 4050; 4066; 4088; 4101; 4115; 4146; 4160; 4185; 4203; 4218; 4231; 4250; 4263; 4278; 4307; 4326; 4344; 4369; 4384; 4403; 4419; 4438; 4456; 4472; 4486; 4505; 4532; 4555; 4577; 4596; 4611; 4624; 4641; 4661; 4688; 4701; 4720; 4745; 4768; 4782; 4795; 4812
MspJI	!NNNNNNNNNNNNYNG	208	5; 25; 54; 71; 94; 111; 139; 157; 188; 205; 223; 242; 264; 283; 307; 325; 351; 371; 388; 408; 427; 449; 476; 502; 530; 548; 568; 589; 609; 631; 650; 672; 703; 721; 748; 773; 790; 807; 835; 853; 884; 901; 919; 938; 960; 979; 1003; 1021; 1047; 1067; 1084; 1104; 1123; 1145; 1172; 1198; 1226; 1244; 1264; 1285; 1305; 1327; 1346; 1368; 1399; 1417; 1444; 1467; 1493; 1522; 1551; 1593; 1676; 1711; 1738; 1761; 1790; 1834; 1856; 1888; 1924; 1941; 1962; 1999; 2019; 2036; 2053; 2088; 2106; 2124; 2141; 2165; 2187; 2214; 2242; 2268; 2306; 2327; 2344; 2362; 2385; 2406; 2434; 2457; 2478; 2496; 2517; 2534; 2557; 2581; 2601; 2619; 2641; 2672; 2694; 2720; 2739; 2756; 2784; 2803; 2822; 2840; 2858; 2879; 2901; 2925; 2958; 2978; 2996; 3017; 3043; 3070; 3087; 3104; 3121; 3147; 3169; 3191; 3209; 3229; 3248; 3270; 3308; 3328; 3352; 3372; 3392; 3419; 3443; 3476; 3495; 3523; 3545; 3574; 3602; 3627; 3646; 3665; 3686; 3703; 3720; 3751; 3778; 3798; 3821; 3841; 3878; 3895; 3914; 3940; 3960; 3999; 4026; 4045; 4063; 4100; 4118; 4159; 4177; 4203; 4220; 4252; 4281; 4309; 4330; 4353; 4372; 4393; 4411; 4428; 4446; 4472; 4493; 4513; 4533; 4551; 4572; 4598; 4615; 4634; 4653; 4682; 4701; 4719; 4738; 4756; 4774; 4797
MspR9I	CC!NGG	29	75; 76; 271; 366; 415; 427; 665; 750; 788; 789; 967; 1062; 1111; 1123; 1361; 1446; 2377; 2432; 2449; 2845; 3005; 3228; 3618; 3807; 3910; 4382; 4600; 4613; 4734
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1591
MvaI	CC!WGG	17	271; 366; 415; 427; 967; 1062; 1111; 1123; 2377; 2432; 2449; 3228; 3807; 3910; 4600; 4613; 4734
Mva1269I	GAATGCN!	1	1592
Mva1269I	G!CATTC	1	1685
MvnI	CG!CG	17	69; 650; 1346; 1490; 1765; 2141; 2161; 2185; 2216; 2907; 3208; 3646; 3730; 3793; 3862; 4135; 4716
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	35	215; 290; 431; 560; 632; 649; 696; 745; 911; 986; 1127; 1256; 1328; 1345; 1392; 1441; 2068; 2098; 2125; 2167; 2408; 2480; 2531; 2610; 2832; 2916; 2939; 3078; 3201; 3284; 3551; 3738; 3942; 4141; 4713
NaeI	GCC!GGC	5	207; 903; 2060; 3343; 3626
NarI	GG!CGCC	3	242; 938; 2841
NciI	CC!SGG	12	75; 76; 665; 750; 788; 789; 1361; 1446; 2845; 3005; 3618; 4382
NcoI	C!CATGG	3	95; 2570; 3273
NdeI	CA!TATG	0	
NdeII	!GATC	26	27; 78; 323; 443; 605; 781; 1019; 1139; 1301; 1498; 2678; 2682; 2701; 3012; 3090; 3171; 3180; 3258; 3634; 3650; 4009; 4021; 4099; 4107; 4118; 4193
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	5	205; 901; 2058; 3341; 3624
NheI	G!CTAGC	0	
NlaIII	CATG!	20	99; 144; 222; 663; 840; 918; 1359; 2271; 2411; 2483; 2574; 2715; 3060; 3246; 3277; 3303; 3659; 4043; 4763; 4814
NlaIV	GGN!NCC	34	65; 73; 80; 150; 210; 243; 275; 468; 489; 521; 601; 691; 846; 906; 939; 971; 1164; 1185; 1217; 1297; 1387; 1996; 2017; 2029; 2220; 2381; 2453; 2842; 2877; 3725; 3804; 3849; 4692; 4731
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1673; 1988; 3580
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	5	475; 556; 1171; 1252; 4652
Nli3877I	CYCGR!G	10	35; 78; 356; 548; 770; 791; 1052; 1244; 1466; 1485
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	4	345; 1041; 2630; 3066
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2595
NmeDI	RCCGGYNNNNNN!	9	96; 217; 608; 913; 1304; 2070; 3172; 3353; 3636
NmeDI	!NNNNNNNNNNNNRCCGGY	9	71; 192; 583; 888; 1279; 2045; 3147; 3328; 3611
NmuCI	!GTSAC	5	231; 927; 2130; 2961; 3267
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	3	127; 823; 2943
NsiI	ATGCA!T	3	2413; 2485; 4816
NspI	RCATG!Y	4	2411; 2483; 3246; 4763
NspV	TT!CGAA	2	45; 3523
OliI	CACNN!NNGTG	3	97; 532; 1228
PabI	GTA!C	14	66; 140; 290; 542; 722; 734; 755; 836; 986; 1238; 1418; 1430; 1451; 3148
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2411; 2483; 3246
PaeR7I	C!TCGAG	2	31; 1481
PagI	T!CATGA	2	2267; 4039
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3806; 3909
PauI	G!CGCGC	2	648; 1344
PceI	AGG!CCT	1	2662
PciI	A!CATGT	1	4759
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3185; 3395
PcsI	WCGNNNN!NNNCGW	10	722; 740; 1418; 1436; 3135; 3212; 3455; 3529; 3922; 4440
PctI	GAATGCN!	1	1592
PctI	G!CATTC	1	1685
PdiI	GCC!GGC	5	207; 903; 2060; 3343; 3626
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	224; 920; 3326; 3460; 3570; 3607; 4785
Pfi23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	2959
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	1	3616
PhoI	GG!CC	39	73; 107; 161; 274; 488; 566; 580; 643; 739; 748; 775; 803; 857; 970; 1184; 1262; 1276; 1339; 1435; 1444; 1471; 1487; 1807; 1949; 2604; 2610; 2619; 2662; 2749; 2923; 3314; 3341; 3850; 3907; 3940; 4285; 4719; 4737; 4748
PinAI	A!CCGGT	1	84
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3222
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2787; 3042
PleI	GAGTCNNNN!	2	1892; 2324
PleI	!NNNNNGACTC	5	16; 1486; 1900; 3506; 4383
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	2	231; 927
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	2	231; 927
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1923
PpiI	!NNNNNNNGAGNNNNNGTTC	1	4053
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4085
PpiI	!NNNNNNNGAACNNNNNCTC	1	1891



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpsI	GAGTCNNNN!	2	1892; 2324
PpsI	!NNNNNGACTC	5	16; 1486; 1900; 3506; 4383
Ppu10I	A!TGCAT	3	2409; 2481; 4812
Ppu21I	YAC!GTR	4	231; 927; 1957; 3145
PpuMI	RG!GWCCY	2	299; 995
PscI	A!CATGT	1	4759
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	2	1624; 1829
Psp03I	GGWC!C	4	302; 998; 3360; 3805
Psp5II	RG!GWCCY	2	299; 995
Psp6I	!CCWGG	17	269; 364; 413; 425; 965; 1060; 1109; 1121; 2375; 2430; 2447; 3226; 3805; 3908; 4598; 4611; 4732
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	38
PspCI	CAC!GTG	2	231; 927
PspEI	G!GTNACC	0	
PspGI	!CCWGG	17	269; 364; 413; 425; 965; 1060; 1109; 1121; 2375; 2430; 2447; 3226; 3805; 3908; 4598; 4611; 4732
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	34	65; 73; 80; 150; 210; 243; 275; 468; 489; 521; 601; 691; 846; 906; 939; 971; 1164; 1185; 1217; 1297; 1387; 1996; 2017; 2029; 2220; 2381; 2453; 2842; 2877; 3725; 3804; 3849; 4692; 4731
PspOMI	G!GGCCC	1	71
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	2	2571; 3570
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2973
PspPI	G!GNCC	18	71; 72; 273; 299; 487; 579; 747; 969; 995; 1183; 1275; 1443; 1948; 3357; 3802; 3848; 3906; 3939
PspPPI	RG!GWCCY	2	299; 995
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2394; 2466; 3972
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	2307; 3502
PspXI	VC!TCGAGB	1	1481
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	2	180; 876
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	2	148; 844
PssI	RGGNC!CY	3	302; 998; 3942
PstI	CTGCA!G	1	56
PstNI	CAGNNN!CTG	4	699; 1395; 3942; 4350
PsuI	R!GATCY	12	27; 78; 323; 781; 1019; 3012; 3258; 3650; 4009; 4021; 4107; 4118
PsyI	GACN!NNGTC	1	2959
PteI	G!CGCGC	2	648; 1344
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2339; 2947
RcaI	T!CATGA	2	2267; 4039
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3356
RceI	!NNNNNNNNNNNNNNNNNGTCCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1570
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	2	413; 1109
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	14	65; 139; 289; 541; 721; 733; 754; 835; 985; 1237; 1417; 1429; 1450; 3147
RsaNI	G!TAC	14	64; 138; 288; 540; 720; 732; 753; 834; 984; 1236; 1416; 1428; 1449; 3146
RseI	CAYNN!NNRTG	6	97; 133; 532; 829; 1228; 3278
RsrII	CG!GWCCG	1	3357
Rsr2I	CG!GWCCG	1	3357
SacI	GAGCT!C	1	38

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SacII	CCGC!GG	1	70
SalI	G!TCGAC	1	57
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3185; 3395
SaqAI	T!TAA	14	1542; 1603; 1724; 1745; 1756; 1768; 1779; 1796; 1894; 2165; 3984; 3998; 4003; 4055
SatI	GC!NGC	45	105; 282; 294; 396; 510; 513; 564; 700; 801; 978; 990; 1092; 1206; 1209; 1260; 1396; 1488; 1618; 2137; 2159; 2173; 2611; 2750; 2802; 2813; 2903; 2908; 2945; 2986; 3073; 3076; 3079; 3315; 3411; 3452; 3466; 3580; 3919; 3934; 4145; 4351; 4354; 4419; 4562; 4717
Sau96I	G!GNCC	18	71; 72; 273; 299; 487; 579; 747; 969; 995; 1183; 1275; 1443; 1948; 3357; 3802; 3848; 3906; 3939
Sau3AI	!GATC	26	27; 78; 323; 443; 605; 781; 1019; 1139; 1301; 1498; 2678; 2682; 2701; 3012; 3090; 3171; 3180; 3258; 3634; 3650; 4009; 4021; 4099; 4107; 4118; 4193
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	2	721; 1417
SchI	GAGTCNNNNN!	2	1893; 2325
SchI	!NNNNNGACTC	5	16; 1486; 1900; 3506; 4383
SciI	CTC!GAG	2	33; 1483
ScrFI	CC!NGG	29	75; 76; 271; 366; 415; 427; 665; 750; 788; 789; 967; 1062; 1111; 1123; 1361; 1446; 2377; 2432; 2449; 2845; 3005; 3228; 3618; 3807; 3910; 4382; 4600; 4613; 4734
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNN!	4	2419; 2491; 2660; 4602
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2996; 3481
SdeOSI	GACNNNNRTGANNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNNRTGA	0	
SduI	GDGCH!C	18	38; 75; 151; 311; 464; 524; 847; 1007; 1160; 1220; 2032; 2787; 2880; 2954; 3144; 3206; 3916; 4449
SelI	!CGCG	17	67; 648; 1344; 1488; 1763; 2139; 2159; 2183; 2214; 2905; 3206; 3644; 3728; 3791; 3860; 4133; 4714
SetI	ASST!	70	38; 44; 233; 304; 349; 367; 385; 455; 461; 536; 575; 590; 605; 628; 731; 764; 929; 1000; 1045; 1063; 1081; 1151; 1157; 1232; 1271; 1286; 1301; 1324; 1427; 1460; 1531; 1552; 1561; 1573; 1622; 1789; 1904; 1916; 1959; 1996; 2046; 2069; 2193; 2341; 2436; 2629; 2742; 2870; 2949; 2960; 3032; 3103; 3147; 3407; 3553; 3597; 3928; 3959; 4018; 4061; 4204; 4225; 4324; 4461; 4476; 4495; 4507; 4551; 4597; 4648
SexAI	A!CCWGGT	1	2430
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	137; 407; 833; 1103; 1657; 2420; 2492; 3140; 3204; 3479
SfaNI	!NNNNNNNNNGATGC	6	686; 1382; 2799; 3054; 3270; 4662
SfcI	C!TRYAG	4	52; 2176; 4303; 4494
SfiI	GGCCNNNN!NGGCC	3	745; 1441; 2616
SfoI	GGC!GCC	3	243; 939; 2842
Sfr274I	C!TCGAG	2	31; 1481
Sfr303I	CCGC!GG	1	70
SfuI	TT!CGAA	2	45; 3523

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNN!	213	6; 22; 43; 80; 97; 120; 144; 165; 183; 218; 231; 249; 282; 297; 318; 333; 351; 364; 377; 399; 414; 427; 453; 475; 490; 504; 528; 543; 556; 579; 594; 609; 635; 648; 661; 676; 699; 729; 747; 761; 774; 799; 816; 840; 861; 879; 914; 927; 945; 978; 993; 1014; 1029; 1047; 1060; 1073; 1095; 1110; 1123; 1149; 1171; 1186; 1200; 1224; 1239; 1252; 1275; 1290; 1305; 1331; 1344; 1357; 1372; 1395; 1425; 1443; 1457; 1470; 1493; 1508; 1548; 1577; 1619; 1702; 1776; 1860; 1882; 1914; 1951; 1969; 1988; 2003; 2045; 2062; 2079; 2114; 2128; 2145; 2167; 2191; 2215; 2280; 2294; 2332; 2348; 2388; 2401; 2420; 2443; 2460; 2473; 2492; 2522; 2543; 2560; 2583; 2618; 2645; 2676; 2698; 2724; 2746; 2765; 2793; 2829; 2848; 2871; 2885; 2905; 2918; 2932; 2951; 2965; 2984; 3016; 3030; 3043; 3069; 3100; 3113; 3130; 3147; 3161; 3178; 3196; 3211; 3239; 3255; 3274; 3296; 3312; 3335; 3354; 3379; 3398; 3418; 3445; 3469; 3502; 3521; 3549; 3563; 3629; 3653; 3668; 3691; 3712; 3729; 3777; 3804; 3818; 3847; 3871; 3904; 3921; 3941; 3954; 3967; 4025; 4052; 4071; 4101; 4126; 4146; 4160; 4185; 4203; 4240; 4278; 4307; 4335; 4349; 4369; 4384; 4405; 4419; 4438; 4456; 4472; 4512; 4532; 4559; 4577; 4598; 4611; 4624; 4641; 4665; 4688; 4720; 4745; 4772; 4794
SgeI	!NNNNNNNNNNNNCNG	179	5; 25; 54; 71; 94; 118; 139; 157; 192; 215; 235; 256; 283; 307; 325; 351; 373; 400; 427; 449; 476; 502; 530; 553; 583; 609; 631; 650; 673; 703; 721; 748; 773; 790; 814; 835; 853; 888; 911; 931; 952; 979; 1003; 1021; 1047; 1069; 1096; 1123; 1145; 1172; 1198; 1226; 1249; 1279; 1305; 1327; 1346; 1369; 1399; 1417; 1444; 1467; 1522; 1551; 1593; 1676; 1750; 1834; 1856; 1888; 1925; 1943; 1962; 2019; 2036; 2053; 2088; 2106; 2126; 2146; 2165; 2189; 2254; 2306; 2362; 2394; 2417; 2434; 2466; 2496; 2517; 2534; 2557; 2592; 2619; 2650; 2672; 2698; 2720; 2739; 2767; 2803; 2822; 2845; 2866; 2884; 2901; 2925; 2958; 2990; 3017; 3043; 3074; 3104; 3121; 3147; 3170; 3191; 3213; 3233; 3253; 3270; 3309; 3328; 3353; 3372; 3392; 3419; 3443; 3476; 3495; 3523; 3545; 3603; 3627; 3646; 3665; 3686; 3703; 3751; 3778; 3798; 3821; 3845; 3878; 3895; 3915; 3941; 3999; 4026; 4045; 4075; 4100; 4120; 4159; 4177; 4214; 4252; 4281; 4309; 4330; 4358; 4379; 4412; 4430; 4486; 4506; 4533; 4551; 4572; 4598; 4615; 4639; 4662; 4694; 4719; 4746; 4768; 4797
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	70
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1988; 3775; 4568
SimI	!GACCC	3	3269; 3837; 4085
SinI	G!GWCC	4	299; 995; 3357; 3802
SlaI	C!TCGAG	2	31; 1481
SmaI	CCC!GGG	2	76; 789
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	6	97; 133; 532; 829; 1228; 3278
SmlI	C!TYRAG	8	31; 37; 1481; 1723; 3232; 4114; 4391; 4653
SmoI	C!TYRAG	8	31; 37; 1481; 1723; 3232; 4114; 4391; 4653
SmuI	CCCGCNNNN!	7	486; 1182; 2163; 2518; 2539; 3735; 3867
SmuI	!NNNNNNGCGGG	6	62; 2094; 2964; 3501; 3639; 3786
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2411; 2483; 3246
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	47; 1591; 1655; 1733; 1759; 1770; 2417; 2489; 2581; 3999
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	2	299; 995
SseBI	AGG!CCT	1	2662
SsiI	C!CGC	32	67; 317; 407; 479; 1013; 1103; 1175; 1488; 2156; 2159; 2173; 2263; 2511; 2523; 2532; 2544; 2554; 2565; 2611; 2750; 2813; 3315; 3360; 3426; 3452; 3577; 3580; 3728; 3860; 4167; 4311; 4807

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	G!CGG	33	69; 104; 395; 509; 512; 563; 702; 800; 1091; 1205; 1208; 1259; 1398; 2101; 2128; 2216; 2326; 2907; 2971; 3072; 3075; 3355; 3410; 3508; 3646; 3793; 3933; 4176; 4421; 4542; 4561; 4688; 4716
SspI	AAT!ATT	2	1749; 2302
SspDI	G!GCGCC	3	241; 937; 2840
SspD5I	GGTGANNNNNNNN!	6	111; 465; 807; 1161; 3912; 4028
SspD5I	!NNNNNNNNNTCACC	6	353; 668; 1049; 1364; 1957; 3018
SstI	GAGCT!C	1	38
SstII	CCG!GG	1	70
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	30	81; 335; 359; 485; 497; 551; 671; 756; 773; 794; 1031; 1055; 1181; 1193; 1247; 1367; 1452; 1469; 2040; 2162; 2517; 2538; 2851; 3254; 3393; 3464; 3734; 3866; 4096; 4534
Sth132I	!NNNNNNNNCCGGG	17	61; 780; 2041; 2093; 2194; 2921; 2963; 2996; 3500; 3609; 3638; 3785; 3889; 3920; 4373; 4417; 4625
Sth302II	CC!GG	34	20; 76; 86; 207; 568; 598; 631; 666; 688; 751; 789; 903; 1264; 1294; 1327; 1362; 1384; 1447; 2060; 2747; 2824; 2846; 2874; 3005; 3095; 3162; 3343; 3618; 3626; 3718; 4192; 4382; 4408; 4555
StrI	C!TCGAG	2	31; 1481
StsI	GGATGNNNNNNNNNN!	5	805; 2709; 3166; 3191; 3645
StsI	!NNNNNNNNNNNNNNNNCATCC	7	252; 384; 669; 948; 1080; 1365; 2513
StuI	AGG!CCT	1	2662
StyI	C!CWWGG	5	95; 2570; 2663; 3273; 3678
StyD4I	!CCNGG	29	73; 74; 269; 364; 413; 425; 663; 748; 786; 787; 965; 1060; 1109; 1121; 1359; 1444; 2375; 2430; 2447; 2843; 3003; 3226; 3616; 3805; 3908; 4380; 4598; 4611; 4732
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	11	63; 153; 849; 1932; 3221; 3337; 3445; 3768; 4259; 4729; 4800
TaiI	ACGT!	12	233; 575; 929; 1271; 1904; 1916; 1959; 2069; 2960; 3147; 3928; 4061
TaqI	T!CGA	19	32; 45; 58; 263; 725; 959; 1421; 1482; 1990; 2681; 2954; 3110; 3134; 3170; 3332; 3523; 3568; 3823; 4661
TaqII	GACCGANNNNNNNNNN!	5	250; 946; 1861; 2878; 3546
TaqII	!NNNNNNNNNTCGGTC	1	3790
TaqII	CACCCANNNNNNNNNN!	2	226; 922
TaqII	!NNNNNNNNNTGGGTG	2	2745; 3337
TasI	!AATT	10	47; 1591; 1655; 1733; 1759; 1770; 2417; 2489; 2581; 3999
TatI	W!GTACW	4	137; 719; 833; 1415
TauI	GCSG!C	26	107; 398; 512; 515; 566; 803; 1094; 1208; 1211; 1262; 1490; 2161; 2175; 2613; 2752; 2815; 2910; 3075; 3078; 3317; 3413; 3454; 3582; 3936; 4564; 4719
TfiI	G!AWTC	7	224; 920; 3326; 3460; 3570; 3607; 4785
ThiI	C!TCGAG	2	31; 1481
TruII	T!TAA	14	1542; 1603; 1724; 1745; 1756; 1768; 1779; 1796; 1894; 2165; 3984; 3998; 4003; 4055
Tru9I	T!TAA	14	1542; 1603; 1724; 1745; 1756; 1768; 1779; 1796; 1894; 2165; 3984; 3998; 4003; 4055
TscAI	CASTGNN!	5	1687; 2970; 4080; 4351; 4364
TseI	G!CWGC	19	281; 293; 699; 977; 989; 1395; 1617; 2136; 2801; 2902; 2944; 2985; 3078; 3465; 3918; 4144; 4350; 4353; 4418
TsoI	TARCCANNNNNNNNNN!	2	1813; 2160
TsoI	!NNNNNNNNNTGGYTA	2	1618; 3370
Tsp45I	!GTSAC	5	231; 927; 2130; 2961; 3267
Tsp509I	!AATT	10	47; 1591; 1655; 1733; 1759; 1770; 2417; 2489; 2581; 3999
TspDTI	ATGAANNNNNNNNNN!	5	511; 1207; 1599; 2900; 3604
TspDTI	!NNNNNNNNNTTCAT	3	3318; 3774; 3981
TspEI	!AATT	10	47; 1591; 1655; 1733; 1759; 1770; 2417; 2489; 2581; 3999
TspGWI	ACGGANNNNNNNNNN!	1	3716
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	2	74; 787
TspRI	CASTGNN!	5	1687; 2970; 4080; 4351; 4364
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNNGTG	0	
TstI	GGANNNNNNNGTGNNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2959
Tth111II	CAARCANNNNNNNNNN!	3	355; 1051; 4168
Tth111II	!NNNNNNNNNTGYTTG	3	3276; 4136; 4175
UnbI	!GGNCC	18	70; 71; 272; 298; 486; 578; 746; 968; 994; 1182; 1274; 1442; 1947; 3356; 3801; 3847; 3905; 3938
Van9II	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	1	1723
VneI	G!TGCAC	5	307; 460; 1003; 1156; 4445
VpaK11AI	!GGWCC	4	298; 994; 3356; 3801
VpaK11BI	G!GWCC	4	299; 995; 3357; 3802
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	2	112; 808
XapI	R!AATTY	4	47; 1655; 1759; 1770
XbaI	T!CTAGA	1	1495
XceI	RCATG!Y	4	2411; 2483; 3246; 4763
XcmI	CCANNNNN!NNNNTGG	2	531; 1227
XhoI	C!TCGAG	2	31; 1481
XhoII	R!GATCY	12	27; 78; 323; 781; 1019; 3012; 3258; 3650; 4009; 4021; 4107; 4118
XmaI	C!CCGGG	2	74; 787
XmaJI	C!CTAGG	2	2663; 3678
XmiI	GT!MKAC	1	58
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	8	10; 1496; 1690; 2108; 2664; 3679; 4013; 4266
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	2	721; 1417
Zsp2I	ATGCA!T	3	2413; 2485; 4816