

pTurboYFP-C vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1550; 1755
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1838; 2794; 4583
AatI	AGG!CCT	1	2588
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1382
AccII	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1393; 1655; 1691; 2067; 2087; 2111; 2142; 2833; 3134; 3572; 3656; 3719; 3788; 4061; 4642
AccIII	T!CCGGA	1	1327
Acc16I	TGC!GCA	1	2869
Acc36I	ACCTGCNNNN!	2	3035; 3485
Acc36I	!NNNNNNNNGCAGGT	1	2654
Acc65I	G!GTACC	1	1387
AccB1I	G!GYRCC	7	465; 622; 811; 1387; 1920; 2766; 2801
AccB7I	CCANNNN!NTGG	1	1014
AccBSI	CCG!CTC	2	2191; 3380
AccBSI	GAG!CGG	2	2027; 3434
AceIII	CAGCTCNNNNNNN!	1	1723
AceIII	!NNNNNNNNNNGAGCTG	3	552; 829; 849
AciI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 699; 930; 1254; 1299; 1391; 2082; 2085; 2099; 2189; 2437; 2449; 2458; 2470; 2480; 2491; 2537; 2676; 2739; 3241; 3286; 3352; 3378; 3503; 3506; 3654; 3786; 4093; 4237; 4733
AciI	G!CGG	28	370; 403; 528; 620; 701; 1178; 1181; 1393; 2027; 2054; 2142; 2252; 2833; 2897; 2998; 3001; 3281; 3336; 3434; 3572; 3719; 3859; 4102; 4347; 4468; 4487; 4614; 4642
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	1410; 1419; 2635; 2946; 3192; 3584; 3943; 4041; 4127
AclWI	!NNNNNGATCC	7	580; 639; 1397; 3011; 3555; 3942; 4039
AcoI	Y!GGCCR	8	681; 984; 1005; 1145; 2673; 2847; 3238; 3265
AcsI	R!AATY	4	1371; 1581; 1685; 1696
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	5	865; 1108; 1291; 2913; 3345
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	675; 4143
AcvI	CAC!GTG	3	1011; 1194; 1224
AcyI	GR!CGYC	10	122; 175; 258; 444; 623; 812; 1319; 2767; 3469; 3548
AdeI	CACNNN!GTG	1	1883
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 832; 964; 1057; 1204; 1389; 3073
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	22	49; 654; 705; 779; 936; 1014; 1177; 1779; 2105; 2497; 2748; 3292; 3573; 3605; 3737; 3772; 3822; 3854; 4207; 4486; 4652; 4670
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	2	1653; 4685
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	9	924; 996; 1035; 1101; 2178; 2222; 2232; 2645; 4221
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	14	88; 281; 778; 788; 986; 2301; 2356; 2373; 3152; 3731; 3834; 4524; 4537; 4658
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNTTC	0	
AjuI	CCAANNNNNNTTCNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	790
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	2	2341; 2413
AlfI	!NNNNNNNNNGCANNNNNTGC	2	2307; 2379
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	1849
AloI	!NNNNNNNGGANNNNNNGTTC	1	730
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	1	762
AloI	!NNNNNNNGAACNNNNNTCC	1	1817
AluI	AG!CT	20	566; 843; 863; 978; 1217; 1230; 1340; 1360; 1366; 1546; 1713; 1970; 2265; 2553; 2873; 3331; 4128; 4385; 4431; 4521
AluBI	AG!CT	20	566; 843; 863; 978; 1217; 1230; 1340; 1360; 1366; 1546; 1713; 1970; 2265; 2553; 2873; 3331; 4128; 4385; 4431; 4521
AlwI	GGATCNNNN!	9	1410; 1419; 2635; 2946; 3192; 3584; 3943; 4041; 4127
AlwI	!NNNNNGATCC	7	580; 639; 1397; 3011; 3555; 3942; 4039
Alw21I	GWGCW!C	6	787; 1193; 1362; 2880; 3070; 4375
Alw26I	GTCTCN!	2	434; 1351
Alw26I	!NNNNNGAGAC	5	1270; 2191; 2609; 3628; 3756
Alw44I	G!TGCAC	2	1189; 4371
AlwNI	CAGNNN!CTG	2	3868; 4276
Ama87I	C!YCGRG	4	838; 1198; 1355; 1398
Aor13HI	T!CCGGA	1	1327
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	1399
ApaBI	GCANNNNN!TGC	3	2335; 2407; 3869
ApaLI	G!TGCAC	2	1189; 4371
ApeKI	G!CWGC	17	617; 863; 956; 1124; 1543; 2062; 2727; 2828; 2870; 2911; 3004; 3391; 3844; 4070; 4276; 4279; 4344
ApoI	R!AATTY	4	1371; 1581; 1685; 1696
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3282
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3076; 3729; 4567
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3166
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	812
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2595
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	3337
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 645; 1069; 1116; 1150; 1249; 1352; 1403; 1412; 1425; 2605; 2609; 2628; 2939; 3017; 3098; 3107; 3185; 3561; 3577; 3936; 3948; 4026; 4034; 4045; 4120
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2885
Asp700I	GAANN!NNTTC	1	850
Asp718I	G!GTACC	1	1387
AspA2I	C!CTAGG	2	2589; 3604
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	28	597; 625; 814; 893; 934; 1096; 1286; 1288; 2033; 2041; 2067; 2089; 2098; 2111; 2142; 2761; 2769; 2833; 2870; 3136; 3396; 3572; 3658; 4061; 4170; 4344; 4444; 4511
AspS9I	G!GNCC	11	83; 276; 835; 1183; 1396; 1874; 3283; 3728; 3774; 3832; 3865
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1369; 3449
AsuC2I	CC!SGG	6	1399; 1400; 2771; 2931; 3544; 4308
AsuHPI	GGTGANNNNNNNN!	5	376; 804; 951; 3838; 3954
AsuHPI	!NNNNNNNTCACC	6	891; 1032; 1110; 1243; 1884; 2945
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	838; 1198; 1355; 1398
AvaII	G!GWCC	2	3283; 3728
AviII	TGC!GCA	1	2869
AvrII	C!CTAGG	2	2589; 3604

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AxyI	CC!TNAGG	2	2247; 3879
BaeI	ACNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI:C	8	773; 779; 1193; 1199; 1399; 2713; 2806; 4375
BalI	TGG!CCA	4	683; 986; 1007; 2849
BamHI	G!GATCC	1	1402
BanI	G!GYRCC	7	465; 622; 811; 1387; 1920; 2766; 2801
BanII	GRGCY!C	5	1362; 1399; 1958; 3132; 3842
BanIII	AT!CGAT	1	2607
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	870
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	838
BasI	CCANNNN!NTGG	1	1014
BauI	C!ACGAG	3	1111; 3485; 4512
BauI	C!TCGTG	1	3359
BbeI	GGCGC!C	3	626; 815; 2770
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	3	1011; 1194; 1224
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	4	870; 2337; 2409; 3172
BbvI	GCAGCNNNNNN!	9	629; 968; 1136; 1555; 2840; 2882; 3403; 3856; 4356
BbvI	!NNNNNNNNNNNGCTGC	7	850; 2049; 2714; 2898; 2991; 4057; 4263
Bbv12I	GWGCW!C	6	787; 1193; 1362; 2880; 3070; 4375
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	904; 1180; 1897; 2461; 2987; 3489
BccI	!NNNNNGATGG	8	657; 673; 868; 907; 997; 1865; 2645; 3073
BceAI	ACGGCNNNNNNNNNN!	7	654; 729; 825; 849; 1098; 3193; 3680
BceAI	!NNNNNNNNNNNGCCGT	4	1273; 1908; 2726; 4185
BceFI	ACGGCNNNNNNNNNN!	7	654; 729; 825; 849; 1098; 3193; 3680
BceFI	!NNNNNNNNNNNGCCGT	4	1274; 1909; 2727; 4186
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	2196; 2986; 4487
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1424
BcnI	CC!SGG	6	1399; 1400; 2771; 2931; 3544; 4308
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNN!	2	1447; 4620
BdaI	!NNNNNNNNNTGANNNNNNTCA	2	1413; 4586
BfaI	C!TAG	8	592; 1415; 1616; 2034; 2590; 3605; 3939; 4192
BfiI	ACTGGGNNNN!	1	2716
BfiI	!NNNCCCAGT	4	289; 738; 810; 2468
BfmI	C!TRYAG	4	1376; 2102; 4229; 4420
BfoI	RGCGC!Y	8	598; 626; 815; 1097; 2034; 2042; 2770; 4445
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNN!	3	2196; 2986; 4487
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3035; 3485
BfuAI	!NNNNNNNNGCAGGT	1	2654
BfuCI	!GATC	26	585; 644; 1068; 1115; 1149; 1248; 1351; 1402; 1411; 1424; 2604; 2608; 2627; 2938; 3016; 3097; 3106; 3184; 3560; 3576; 3935; 3947; 4025; 4033; 4044; 4119
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2542
BglII	A!GATCT	1	1351

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BisI	GC!NGC	37	618; 621; 702; 864; 957; 1125; 1179; 1182; 1299; 1544; 2063; 2085; 2099; 2537; 2676; 2728; 2739; 2829; 2834; 2871; 2912; 2999; 3002; 3005; 3241; 3337; 3378; 3392; 3506; 3845; 3860; 4071; 4277; 4280; 4345; 4488; 4643
BlnI	C!CTAGG	2	2589; 3604
BlpI	GC!TNAGC	1	1231
BlsI	GCN!GC	37	619; 622; 703; 865; 958; 1126; 1180; 1183; 1300; 1545; 2064; 2086; 2100; 2538; 2677; 2729; 2740; 2830; 2835; 2872; 2913; 3000; 3003; 3006; 3242; 3338; 3379; 3393; 3507; 3846; 3861; 4072; 4278; 4281; 4346; 4489; 4644
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	3283; 3728
Bme1390I	CC!NGG	20	90; 283; 780; 790; 988; 1399; 1400; 2303; 2358; 2375; 2771; 2931; 3154; 3544; 3733; 3836; 4308; 4526; 4539; 4660
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	838; 1198; 1355; 1398
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	84; 277; 836; 1184; 1397; 1875; 3284; 3729; 3775; 3833; 3866
BmiI	GGN!NCC	22	467; 624; 813; 837; 1185; 1326; 1389; 1397; 1404; 1922; 1943; 1955; 2146; 2307; 2379; 2768; 2803; 3651; 3730; 3775; 4618; 4657
BmrI	ACTGGGNNNNN!	1	2716
BmrI	!NNNNCCCACT	4	289; 738; 810; 2468
BmrFI	CC!NGG	20	90; 283; 780; 790; 988; 1399; 1400; 2303; 2358; 2375; 2771; 2931; 3154; 3544; 3733; 3836; 4308; 4526; 4539; 4660
BmsI	GCATCNNNNN!	7	704; 1583; 2346; 2418; 3066; 3130; 3405
BmsI	!NNNNNNNNNGATGC	7	357; 708; 729; 2725; 2980; 3196; 4588
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2716
BmuI	!NNNNCCCACT	4	289; 738; 810; 2468
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2556; 3455
BpI	!NNNNNNNNGAGNNNNNNCTC	2	2524; 3423
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	801; 1048; 3607
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	1	3550
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1369; 3449
Bpu1102I	GC!TNAGC	1	1231
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4061; 4600
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	3	1346; 3143; 4302
BpuMI	CC!SGG	6	1399; 1400; 2771; 2931; 3544; 4308
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	1	1351
BsaI	!NNNNNGAGACC	2	1270; 3756
Bsa29I	AT!CGAT	1	2607
BsaAI	YAC!GTR	8	340; 654; 882; 1011; 1194; 1224; 1883; 3071
BsaBI	GATNN!NNATC	2	1429; 2626
BsaHI	GR!CGYC	10	122; 175; 258; 444; 623; 812; 1319; 2767; 3469; 3548
BsaJI	C!CNNGG	22	360; 636; 699; 778; 788; 935; 987; 1289; 1391; 1398; 2301; 2373; 2496; 2531; 2540; 2589; 2930; 3199; 3604; 3732; 3835; 4525
BsaMI	GAATGCN!	1	1518
BsaMI	G!CATTC	1	1611
BsaWI	W!CCGGW	8	600; 1327; 1342; 1408; 2798; 3642; 4332; 4479
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1847
BsaXI	!NNNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	1817
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTTG	2	1768; 3675

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Bsc4I	CCNNNNN!NNGG	22	49; 654; 705; 779; 936; 1014; 1177; 1779; 2105; 2497; 2748; 3292; 3573; 3605; 3737; 3772; 3822; 3854; 4207; 4486; 4652; 4670
BscAI	GCATCNNNN!	7	703; 1582; 2345; 2417; 3065; 3129; 3404
BscAI	!NNNNNNGATGC	7	360; 711; 732; 2728; 2983; 3199; 4591
BseI	ACTGGN!	3	2711; 2912; 4158
BseI	C!CAGT	7	295; 744; 816; 1796; 2474; 4270; 4283
Bse8I	GATNN!NNATC	2	1429; 2626
Bse21I	CC!TNAGG	2	2247; 3879
Bse118I	R!CCGGY	8	600; 760; 1120; 1321; 1984; 3086; 3267; 3550
BseAI	T!CCGGA	1	1327
BseBI	CC!WGG	14	90; 283; 780; 790; 988; 2303; 2358; 2375; 3154; 3733; 3836; 4526; 4539; 4660
BseCI	AT!CGAT	1	2607
BseDI	C!CNNGG	22	360; 636; 699; 778; 788; 935; 987; 1289; 1391; 1398; 2301; 2373; 2496; 2531; 2540; 2589; 2930; 3199; 3604; 3732; 3835; 4525
Bse3DI	GCAATGNN!	2	678; 3000
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	8	684; 744; 1008; 1245; 2627; 3084; 3109; 3563
BseGI	!CATCC	2	695; 2453
BseJI	GATNN!NNATC	2	1429; 2626
BseLI	CCNNNNN!NNGG	22	49; 654; 705; 779; 936; 1014; 1177; 1779; 2105; 2497; 2748; 3292; 3573; 3605; 3737; 3772; 3822; 3854; 4207; 4486; 4652; 4670
BseMI	GCAATGNN!	2	678; 3000
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	1362; 3893
BseMII	!NNNNNNNNCTGAG	6	1222; 2238; 2540; 3421; 3993; 4402
BseNI	ACTGGN!	3	2711; 2912; 4158
BseNI	C!CAGT	7	295; 744; 816; 1796; 2474; 4270; 4283
BsePI	G!CGCGC	1	1284
BseRI	GAGGAGNNNNNNNNNN!	1	2585
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	773; 779; 1193; 1199; 1399; 2713; 2806; 4375
BseXI	GCAGC!C	9	629; 968; 1136; 1555; 2840; 2882; 3403; 3856; 4356
BseXI	!NNNNNNNNNNNGCTGC	7	850; 2049; 2714; 2898; 2991; 4057; 4263
BseX3I	C!GGCCG	1	2673
BseYI	C!CCAGC	3	2310; 2382; 4381
BseYI	G!CTGGG	2	1014; 3271
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	904
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	738
Bsh1236I	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1393; 1655; 1691; 2067; 2087; 2111; 2142; 2833; 3134; 3572; 3656; 3719; 3788; 4061; 4642
Bsh1285I	CGRY!CG	3	605; 2676; 4351
BshFI	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1397; 1733; 1875; 2530; 2536; 2545; 2588; 2675; 2849; 3240; 3267; 3776; 3833; 3866; 4211; 4645; 4663; 4674
BshNI	G!GYRCC	7	465; 622; 811; 1387; 1920; 2766; 2801
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	2607
BsiEI	CGRY!CG	3	605; 2676; 4351
BsiHKAI	GWGCW!C	6	787; 1193; 1362; 2880; 3070; 4375
BsiHKCI	C!YCGRG	4	838; 1198; 1355; 1398
BsiSI	C!CGG	24	601; 761; 1121; 1322; 1328; 1343; 1399; 1409; 1985; 2672; 2749; 2771; 2799; 2930; 3020; 3087; 3268; 3543; 3551; 3643; 4117; 4307; 4333; 4480
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	49; 654; 705; 779; 936; 1014; 1177; 1779; 2105; 2497; 2748; 3292; 3573; 3605; 3737; 3772; 3822; 3854; 4207; 4486; 4652; 4670
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2918; 3450; 3559
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2283; 2355; 2419; 3714
BsmI	GAATGCN!	1	1518
BsmI	G!CATTC	1	1611
BsmAI	GTCTCN!	2	434; 1351

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BsmAI	!NNNNNGAGAC	5	1270; 2191; 2609; 3628; 3756
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2918; 3450; 3559
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2283; 2355; 2419; 3714
BsnI	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1397; 1733; 1875; 2530; 2536; 2545; 2588; 2675; 2849; 3240; 3267; 3776; 3833; 3866; 4211; 4645; 4663; 4674
Bso31I	GGTCTCN!	1	1351
Bso31I	!NNNNNGAGAC	2	1270; 3756
BsoBI	C!YCGRG	4	838; 1198; 1355; 1398
Bsp13I	T!CCGGA	1	1327
Bsp19I	C!CATGG	3	360; 2496; 3199
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3570
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	3991; 4169
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4023; 4201
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 3538
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1369; 3449
Bsp120I	G!GGCCC	1	1395
Bsp143I	!GATC	26	585; 644; 1068; 1115; 1149; 1248; 1351; 1402; 1411; 1424; 2604; 2608; 2627; 2938; 3016; 3097; 3106; 3184; 3560; 3576; 3935; 3947; 4025; 4033; 4044; 4119
Bsp1286I	GDGCH!C	15	773; 779; 787; 1193; 1199; 1362; 1399; 1958; 2713; 2806; 2880; 3070; 3132; 3842; 4375
Bsp1407I	T!GTACA	2	962; 1055
Bsp1720I	GC!TNAGC	1	1231
BspACI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 699; 930; 1254; 1299; 1391; 2082; 2085; 2099; 2189; 2437; 2449; 2458; 2470; 2480; 2491; 2537; 2676; 2739; 3241; 3286; 3352; 3378; 3503; 3506; 3654; 3786; 4093; 4237; 4733
BspACI	G!CGG	28	370; 403; 528; 620; 701; 1178; 1181; 1393; 2027; 2054; 2142; 2252; 2833; 2897; 2998; 3001; 3281; 3336; 3434; 3572; 3719; 3859; 4102; 4347; 4468; 4487; 4614; 4642
BspCNI	CTCAGNNNNNNNN!	2	1361; 3892
BspCNI	!NNNNNNNCTGAG	6	1223; 2239; 2541; 3422; 3994; 4403
BspDI	AT!CGAT	1	2607
BspD6I	GACTCNNNN!	4	418; 1840; 3446; 4323
BspD6I	!NNNNNGAGTC	2	1803; 2235
BspEI	T!CCGGA	1	1327
BspFNI	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1393; 1655; 1691; 2067; 2087; 2111; 2142; 2833; 3134; 3572; 3656; 3719; 3788; 4061; 4642
BspHI	T!CATGA	2	2193; 3965
BspLI	GGN!NCC	22	467; 624; 813; 837; 1185; 1326; 1389; 1397; 1404; 1922; 1943; 1955; 2146; 2307; 2379; 2768; 2803; 3651; 3730; 3775; 4618; 4657
BspMI	ACCTGCNNNN!	2	3035; 3485
BspMI	!NNNNNNNGCAGGT	1	2654
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	1410; 1419; 2635; 2946; 3192; 3584; 3943; 4041; 4127
BspPI	!NNNNNGATCC	7	580; 639; 1397; 3011; 3555; 3942; 4039
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	1084; 3111; 3321
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1369; 3449
BspT107I	G!GYRCC	7	465; 622; 811; 1387; 1920; 2766; 2801
BspTNI	GGTCTCN!	1	1351
BspTNI	!NNNNNGAGAC	2	1270; 3756
BsrI	ACTGGN!	3	2711; 2912; 4158
BsrI	C!CAGT	7	295; 744; 816; 1796; 2474; 4270; 4283
BsrBI	CCG!CTC	2	2191; 3380
BsrBI	GAG!CGG	2	2027; 3434
BsrDI	GCAATGNN!	2	678; 3000
BsrDI	!CATTGC	0	
BsrFI	R!CCGY	8	600; 760; 1120; 1321; 1984; 3086; 3267; 3550
BsrGI	T!GTACA	2	962; 1055

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	ACTGGN!	3	2711; 2912; 4158
BsrSI	C!CAGT	7	295; 744; 816; 1796; 2474; 4270; 4283
BssAI	R!CCGGY	8	600; 760; 1120; 1321; 1984; 3086; 3267; 3550
BssECI	C!CNNGG	22	360; 636; 699; 778; 788; 935; 987; 1289; 1391; 1398; 2301; 2373; 2496; 2531; 2540; 2589; 2930; 3199; 3604; 3732; 3835; 4525
BssHII	G!CGCGC	1	1284
BssKI	!CCNGG	20	88; 281; 778; 788; 986; 1397; 1398; 2301; 2356; 2373; 2769; 2929; 3152; 3542; 3731; 3834; 4306; 4524; 4537; 4658
BssMI	!GATC	26	585; 644; 1068; 1115; 1149; 1248; 1351; 1402; 1411; 1424; 2604; 2608; 2627; 2938; 3016; 3097; 3106; 3184; 3560; 3576; 3935; 3947; 4025; 4033; 4044; 4119
BssNI	GR!CGYC	10	122; 175; 258; 444; 623; 812; 1319; 2767; 3469; 3548
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1111; 3485; 4512
BssSI	C!TCGTG	1	3359
BssTII	C!CWWGG	5	360; 2496; 2589; 3199; 3604
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	4	1084; 2234; 3111; 3321
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 623; 812; 1319; 2767; 3469; 3548
BstAFI	C!TTAAG	0	
BstAPI	GCANNN!NTGC	3	2334; 2406; 3868
BstAUI	T!GTACA	2	962; 1055
BstBI	TT!CGAA	2	1369; 3449
Bst2BI	C!ACGAG	3	1111; 3485; 4512
Bst2BI	C!TCGTG	1	3359
BstBAI	YAC!GTR	8	340; 654; 882; 1011; 1194; 1224; 1883; 3071
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 1281; 1387; 1858; 3147; 3263; 3371; 3694; 4185; 4655; 4726
BstC8I	GCN!NGC	31	86; 279; 593; 723; 868; 1286; 1395; 1986; 2029; 2043; 2316; 2335; 2388; 2407; 2661; 2847; 3066; 3132; 3138; 3170; 3211; 3215; 3269; 3552; 3739; 3786; 3842; 3864; 4075; 4635; 4672
BstDEI	C!TNAG	8	1231; 1348; 2247; 2549; 3430; 3879; 4002; 4411
BstDSI	C!CRYGG	7	360; 636; 699; 1289; 1391; 2496; 3199
BstEII	G!GTNACC	2	792; 939
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	8	684; 744; 1008; 1245; 2627; 3084; 3109; 3563
BstF5I	!CATCC	2	695; 2453
BstFNI	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1393; 1655; 1691; 2067; 2087; 2111; 2142; 2833; 3134; 3572; 3656; 3719; 3788; 4061; 4642
BstH2I	RGCGC!Y	8	598; 626; 815; 1097; 2034; 2042; 2770; 4445
BstHHI	GCG!C	28	597; 625; 814; 893; 934; 1096; 1286; 1288; 2033; 2041; 2067; 2089; 2098; 2111; 2142; 2761; 2769; 2833; 2870; 3136; 3396; 3572; 3658; 4061; 4170; 4344; 4444; 4511
BstKTI	GAT!C	26	588; 647; 1071; 1118; 1152; 1251; 1354; 1405; 1414; 1427; 2607; 2611; 2630; 2941; 3019; 3100; 3109; 3187; 3563; 3579; 3938; 3950; 4028; 4036; 4047; 4122
BstMAI	GTCTCN!	2	434; 1351
BstMAI	!NNNNNGAGAC	5	1270; 2191; 2609; 3628; 3756
BstMBI	!GATC	26	585; 644; 1068; 1115; 1149; 1248; 1351; 1402; 1411; 1424; 2604; 2608; 2627; 2938; 3016; 3097; 3106; 3184; 3560; 3576; 3935; 3947; 4025; 4033; 4044; 4119
BstMCI	CGRY!CG	3	605; 2676; 4351
BstMWI	GCNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 701; 722; 761; 818; 1091; 1130; 1994; 2024; 2051; 2093; 2334; 2406; 2457; 2536; 2758; 2842; 2865; 3004; 3127; 3210; 3477; 3664; 3868; 4067; 4639
BstNI	CC!WGG	14	90; 283; 780; 790; 988; 2303; 2358; 2375; 3154; 3733; 3836; 4526; 4539; 4660
BstNSI	RCATG!Y	5	870; 2337; 2409; 3172; 4689
BstOI	CC!WGG	14	90; 283; 780; 790; 988; 2303; 2358; 2375; 3154; 3733; 3836; 4526; 4539; 4660
BstPI	G!GTNACC	2	792; 939
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	20	88; 281; 778; 788; 986; 1397; 1398; 2301; 2356; 2373; 2769; 2929; 3152; 3542; 3731; 3834; 4306; 4524; 4537; 4658

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSFI	C!TRYAG	4	1376; 2102; 4229; 4420
BstSLI	GKGC!C	8	773; 779; 1193; 1199; 1399; 2713; 2806; 4375
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1393; 1655; 1691; 2067; 2087; 2111; 2142; 2833; 3134; 3572; 3656; 3719; 3788; 4061; 4642
Bst2UI	CC!WGG	14	90; 283; 780; 790; 988; 2303; 2358; 2375; 3154; 3733; 3836; 4526; 4539; 4660
BstV1I	GCAGC!NNNNNNNN!	9	629; 968; 1136; 1555; 2840; 2882; 3403; 3856; 4356
BstV1I	!NNNNNNNNNNNGCTGC	7	850; 2049; 2714; 2898; 2991; 4057; 4263
BstV2I	GAAGAC!NN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CC!NNNNN!NTGG	0	
BstX2I	R!GATCY	12	585; 644; 1351; 1402; 1411; 2938; 3184; 3576; 3935; 3947; 4033; 4044
BstYI	R!GATCY	12	585; 644; 1351; 1402; 1411; 2938; 3184; 3576; 3935; 3947; 4033; 4044
BstZI	C!GGCCG	1	2673
BstZ17I	GTA!TAC	0	
BsuI	GTATCC!NNNNNN!	3	2196; 2986; 4487
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2607
Bsu36I	CC!TNAGG	2	2247; 3879
BsuRI	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1397; 1733; 1875; 2530; 2536; 2545; 2588; 2675; 2849; 3240; 3267; 3776; 3833; 3866; 4211; 4645; 4663; 4674
BsuTUI	AT!CGAT	1	2607
BtgI	C!CRYGG	7	360; 636; 699; 1289; 1391; 2496; 3199
BtgZI	GCGATG!NNNNNNNNNN!	5	731; 779; 926; 1884; 3219
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3038; 3382
BthCI	GCNG!C	37	620; 623; 704; 866; 959; 1127; 1181; 1184; 1301; 1546; 2065; 2087; 2101; 2539; 2678; 2730; 2741; 2831; 2836; 2873; 2914; 3001; 3004; 3007; 3243; 3339; 3380; 3394; 3508; 3847; 3862; 4073; 4279; 4282; 4347; 4490; 4645
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTG!NN!	0	
BtsI	!CACTGC	2	1047; 1606
BtsCI	GGATG!NN!	8	684; 744; 1008; 1245; 2627; 3084; 3109; 3563
BtsCI	!CATCC	2	695; 2453
BtuMI	TCG!CGA	0	
BveI	ACCTGC!NNNN!	2	3035; 3485
BveI	!NNNNNNNNNGCAGGT	1	2654
Cac8I	GCN!NGC	31	86; 279; 593; 723; 868; 1286; 1395; 1986; 2029; 2043; 2316; 2335; 2388; 2407; 2661; 2847; 3066; 3132; 3138; 3170; 3211; 3215; 3269; 3552; 3739; 3786; 3842; 3864; 4075; 4635; 4672
CaiI	CAG!NNN!CTG	2	3868; 4276
CciI	T!CATGA	2	2193; 3965
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 1143; 1176; 3056; 3061; 3259; 3400
CdiI	C!GATG	6	717; 765; 873; 912; 1870; 3205
CdpI	GCGGAG!NNNNNNNNNNNNNNNNNNNNNNNN!	1	4639
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2428; 2470
CelII	GC!TNAGC	1	1231
CfoI	GCG!C	28	597; 625; 814; 893; 934; 1096; 1286; 1288; 2033; 2041; 2067; 2089; 2098; 2111; 2142; 2761; 2769; 2833; 2870; 3136; 3396; 3572; 3658; 4061; 4170; 4344; 4444; 4511
CfrI	Y!GGCCR	8	681; 984; 1005; 1145; 2673; 2847; 3238; 3265
Cfr9I	C!CCGGG	1	1398
Cfr10I	R!CCGGY	8	600; 760; 1120; 1321; 1984; 3086; 3267; 3550
Cfr13I	G!GNCC	11	83; 276; 835; 1183; 1396; 1874; 3283; 3728; 3774; 3832; 3865
Cfr42I	CCGC!GG	2	702; 1394
ChaI	GATC!	26	589; 648; 1072; 1119; 1153; 1252; 1355; 1406; 1415; 1428; 2608; 2612; 2631; 2942; 3020; 3101; 3110; 3188; 3564; 3580; 3939; 3951; 4029; 4037; 4048; 4123
CjeI	CC!NNNNNNNGTNNNNNNNNNNNNNNNNNN!	5	1072; 2584; 4024; 4124; 4202
CjeI	!NNNNNNNNNAC!NNNNNNNTGG	7	64; 257; 2251; 2346; 3538; 4088; 4643
CjeI	AC!NNNNNNNTGG!NNNNNNNNNNNNNNNNNN!	7	98; 291; 2285; 2380; 3572; 4122; 4677

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjeI	!NNNNNNNNCCANNNNNNGT	5	1038; 2550; 3990; 4090; 4168
CjePI	CCANNNNNNTCANNNNNNNNNNNN!	2	4024; 4202
CjePI	!NNNNNNNGANNNNNNNTGG	4	257; 966; 3538; 4137
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	4	290; 999; 3571; 4170
CjePI	!NNNNNNCCANNNNNNTC	2	3991; 4169
Clal	AT!CGAT	1	2607
CpoI	CG!GWCCG	1	3283
CseI	GACGCNNNNN!	4	526; 1327; 3477; 3556
CseI	!NNNNNNNNNGCGTC	3	2100; 3995; 4573
CsiI	A!CCWGGT	1	2356
Cspi	CG!GWCCG	1	3283
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 831; 963; 1056; 1203; 1388; 3072
Csp45I	TT!CGAA	2	1369; 3449
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1298; 2047; 3656
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	18	301; 361; 612; 867; 1212; 2194; 2334; 2406; 2497; 2638; 2983; 3169; 3200; 3226; 3582; 3966; 4686; 4737
CviJI	RG!CY	92	42; 84; 93; 277; 566; 683; 710; 836; 843; 863; 878; 978; 986; 992; 1007; 1075; 1085; 1147; 1184; 1217; 1230; 1268; 1340; 1360; 1366; 1397; 1436; 1546; 1713; 1733; 1875; 1956; 1970; 1984; 2265; 2306; 2378; 2501; 2530; 2536; 2545; 2553; 2576; 2588; 2594; 2675; 2692; 2700; 2727; 2752; 2836; 2845; 2849; 2873; 2911; 2987; 3004; 3023; 3086; 3130; 3140; 3157; 3240; 3267; 3271; 3308; 3331; 3347; 3527; 3554; 3615; 3737; 3776; 3833; 3840; 3847; 3866; 3877; 4128; 4157; 4200; 4211; 4276; 4355; 4380; 4385; 4431; 4521; 4619; 4645; 4663; 4674
CviKI-1	RG!CY	92	42; 84; 93; 277; 566; 683; 710; 836; 843; 863; 878; 978; 986; 992; 1007; 1075; 1085; 1147; 1184; 1217; 1230; 1268; 1340; 1360; 1366; 1397; 1436; 1546; 1713; 1733; 1875; 1956; 1970; 1984; 2265; 2306; 2378; 2501; 2530; 2536; 2545; 2553; 2576; 2588; 2594; 2675; 2692; 2700; 2727; 2752; 2836; 2845; 2849; 2873; 2911; 2987; 3004; 3023; 3086; 3130; 3140; 3157; 3240; 3267; 3271; 3308; 3331; 3347; 3527; 3554; 3615; 3737; 3776; 3833; 3840; 3847; 3866; 3877; 4128; 4157; 4200; 4211; 4276; 4355; 4380; 4385; 4431; 4521; 4619; 4645; 4663; 4674
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 831; 963; 1056; 1203; 1388; 3072
DdeI	C!TNAG	8	1231; 1348; 2247; 2549; 3430; 3879; 4002; 4411
DinI	GGC!GCC	3	624; 813; 2768
DpnI	GA!TC	26	587; 646; 1070; 1117; 1151; 1250; 1353; 1404; 1413; 1426; 2606; 2610; 2629; 2940; 3018; 3099; 3108; 3186; 3562; 3578; 3937; 3949; 4027; 4035; 4046; 4121
DpnII	!GATC	26	585; 644; 1068; 1115; 1149; 1248; 1351; 1402; 1411; 1424; 2604; 2608; 2627; 2938; 3016; 3097; 3106; 3184; 3560; 3576; 3935; 3947; 4025; 4033; 4044; 4119
DraI	TTT!AAA	3	1469; 3911; 3930
DraII	RG!GNCCY	1	3865
DraIII	CACNNN!GTG	1	1883
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 854; 4247
DraRI	!NNNNNNNNNNNNNNNNNNGTNCCTT	0	
DrdI	GACNNN!NNGTC	3	1838; 2794; 4583
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	1	1334
DrdIV	!NNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1838; 2794; 4583
EaeI	Y!GGCCR	8	681; 984; 1005; 1145; 2673; 2847; 3238; 3265
EagI	C!GGCCG	1	2673
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	4	1084; 2234; 3111; 3321
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	1084; 2234; 3111; 3321

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EciI	GGCGGANNNNNNNNNNN!	4	2267; 3296; 4483; 4629
EciI	!NNNNNNNNNTCCGCC	4	496; 2438; 2459; 2480
Ecl136II	GAG!CTC	1	1360
EclXI	C!GGCCG	1	2673
Eco24I	GRGCY!C	5	1362; 1399; 1958; 3132; 3842
Eco31I	GGTCTCN!	1	1351
Eco31I	!NNNNNGAGACC	2	1270; 3756
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3283; 3728
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	2673
Eco57I	CTGAAGNNNNNNNNNNNNNNN!	5	865; 1108; 1291; 2913; 3345
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	675; 4143
Eco72I	CAC!GTG	3	1011; 1194; 1224
Eco81I	CC!TNAGG	2	2247; 3879
Eco88I	C!YCGRG	4	838; 1198; 1355; 1398
Eco91I	G!GTNACC	2	792; 939
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 2496; 2589; 3199; 3604
Eco147I	AGG!CCT	1	2588
EcoHI	!CCSGG	6	1397; 1398; 2769; 2929; 3542; 4306
EcoICRI	GAG!CTC	1	1360
Eco57MI	CTGRAGNNNNNNNNNNNNNNN!	8	801; 865; 1048; 1108; 1291; 2913; 3345; 3607
Eco57MI	!NNNNNNNNNNNNNCTYCAG	3	675; 3550; 4143
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	792; 939
Eco0109I	RG!GNCCY	1	3865
EcoRI	G!AATTC	1	1371
EcoRII	!CCWGG	14	88; 281; 778; 788; 986; 2301; 2356; 2373; 3152; 3731; 3834; 4524; 4537; 4658
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 2496; 2589; 3199; 3604
EcoT22I	ATGCA!T	3	2339; 2411; 4742
EcoT38I	GRGCY!C	5	1362; 1399; 1958; 3132; 3842
Eco53kI	GAG!CTC	1	1360
EgeI	GGC!GCC	3	624; 813; 2768
EheI	GGC!GCC	3	624; 813; 2768
ErhI	C!CWWGG	5	360; 2496; 2589; 3199; 3604
EsaBC3I	TC!GA	17	906; 948; 1317; 1357; 1370; 1383; 1917; 2608; 2881; 3037; 3061; 3097; 3259; 3450; 3495; 3750; 4588
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	18	304; 364; 615; 870; 1215; 2197; 2337; 2409; 2500; 2641; 2986; 3172; 3203; 3229; 3585; 3969; 4689; 4740
Fail	YA!TR	55	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 868; 1213; 1264; 1429; 1439; 1505; 1550; 1755; 2183; 2195; 2326; 2335; 2398; 2407; 2431; 2498; 2522; 2639; 2703; 2984; 3009; 3170; 3201; 3227; 3299; 3515; 3583; 3661; 3713; 3874; 3891; 3893; 3895; 3967; 4245; 4434; 4550; 4623; 4687; 4738
FalI	AAGNNNNNCTNNNNNNNNNNNN!	2	1113; 3107
FalI	!NNNNNNNNAAGNNNNNCTT	2	1081; 3075
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2918; 3450; 3559
FaqI	!NNNNNNNNNNNNNGTCCC	4	2283; 2355; 2419; 3714
FatI	!CATG	18	300; 360; 611; 866; 1211; 2193; 2333; 2405; 2496; 2637; 2982; 3168; 3199; 3225; 3581; 3965; 4685; 4736
FauI	CCCGCNNNN!	9	93; 119; 286; 937; 2089; 2444; 2465; 3661; 3793
FauI	!NNNNNNGCGGG	6	1386; 2020; 2890; 3427; 3565; 3712
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	1424
FblI	GT!MKAC	1	1382
FmuI	GGNC!C	11	86; 279; 838; 1186; 1399; 1877; 3286; 3731; 3777; 3835; 3868
Fnu4HI	GC!NGC	37	618; 621; 702; 864; 957; 1125; 1179; 1182; 1299; 1544; 2063; 2085; 2099; 2537; 2676; 2728; 2739; 2829; 2834; 2871; 2912; 2999; 3002; 3005; 3241; 3337; 3378; 3392; 3506; 3845; 3860; 4071; 4277; 4280; 4345; 4488; 4643

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FokI	GGATGNNNNNNNNNN!	8	691; 751; 1015; 1252; 2634; 3091; 3116; 3570
FokI	!NNNNNNNNNNNNNNCATCC	2	682; 2440
FriOI	GRGCY!C	5	1362; 1399; 1958; 3132; 3842
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2869
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1415; 1616; 2034; 2590; 3605; 3939; 4192
FspEI	CCNNNNNNNNNNNN!	161	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 639; 661; 697; 712; 735; 756; 771; 785; 801; 819; 840; 884; 909; 942; 957; 1000; 1021; 1056; 1089; 1110; 1134; 1161; 1182; 1198; 1212; 1234; 1260; 1282; 1302; 1320; 1335; 1356; 1404; 1419; 1450; 1489; 1503; 1644; 1739; 1763; 1786; 1809; 1827; 1849; 1870; 1889; 1908; 1937; 1958; 1972; 1998; 2086; 2112; 2161; 2202; 2220; 2259; 2275; 2313; 2370; 2385; 2442; 2462; 2476; 2493; 2507; 2544; 2559; 2602; 2685; 2752; 2783; 2803; 2818; 2863; 2877; 2943; 2957; 2976; 2992; 3033; 3053; 3100; 3150; 3166; 3186; 3211; 3231; 3254; 3281; 3299; 3325; 3365; 3391; 3415; 3471; 3485; 3513; 3556; 3577; 3612; 3656; 3744; 3768; 3790; 3810; 3826; 3847; 3861; 3880; 3964; 3984; 4012; 4027; 4061; 4103; 4130; 4145; 4190; 4214; 4228; 4250; 4276; 4296; 4320; 4346; 4394; 4413; 4432; 4458; 4493; 4538; 4568; 4582; 4633; 4647; 4672; 4688; 4709; 4738
FspEI	!NNNNNNNNNNNNNNNGG	131	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 605; 623; 643; 661; 686; 712; 746; 765; 794; 818; 860; 892; 922; 968; 989; 1012; 1047; 1067; 1106; 1129; 1160; 1222; 1258; 1276; 1307; 1328; 1370; 1394; 1438; 1538; 1607; 1715; 1764; 1786; 1814; 1850; 1895; 1924; 1960; 1979; 2007; 2027; 2090; 2113; 2221; 2253; 2271; 2300; 2343; 2372; 2483; 2512; 2555; 2576; 2604; 2637; 2657; 2682; 2709; 2734; 2756; 2784; 2810; 2831; 2882; 2903; 2921; 2969; 3005; 3061; 3086; 3110; 3139; 3162; 3186; 3212; 3234; 3253; 3278; 3318; 3354; 3419; 3504; 3528; 3557; 3591; 3612; 3632; 3677; 3704; 3723; 3756; 3808; 3839; 3866; 3918; 4016; 4087; 4132; 4193; 4258; 4292; 4318; 4336; 4372; 4442; 4465; 4487; 4511; 4544; 4592; 4627; 4645; 4702
Fsp4HI	GC!NGC	37	618; 621; 702; 864; 957; 1125; 1179; 1182; 1299; 1544; 2063; 2085; 2099; 2537; 2676; 2728; 2739; 2829; 2834; 2871; 2912; 2999; 3002; 3005; 3241; 3337; 3378; 3392; 3506; 3845; 3860; 4071; 4277; 4280; 4345; 4488; 4643
GdiII	C!GGCCR	1	2673
GdiII	Y!GGCCG	4	1145; 2673; 3238; 3265
GlaI	GC!GC	28	596; 624; 813; 892; 933; 1095; 1285; 1287; 2032; 2040; 2066; 2088; 2097; 2110; 2141; 2760; 2768; 2832; 2869; 3135; 3395; 3571; 3657; 4060; 4169; 4343; 4443; 4510
Glul	GC!NGC	37	618; 621; 702; 864; 957; 1125; 1179; 1182; 1299; 1544; 2063; 2085; 2099; 2537; 2676; 2728; 2739; 2829; 2834; 2871; 2912; 2999; 3002; 3005; 3241; 3337; 3378; 3392; 3506; 3845; 3860; 4071; 4277; 4280; 4345; 4488; 4643
GsaI	CCCAG!C	3	2314; 2386; 4385
GsaI	GCTGG!G	2	1018; 3275
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	801; 1048; 3607
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3550
HaeI	WGG!CCW	9	683; 986; 1007; 1075; 2588; 2849; 4211; 4663; 4674
HaeII	RGCGC!Y	8	598; 626; 815; 1097; 2034; 2042; 2770; 4445
HaeIII	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1397; 1733; 1875; 2530; 2536; 2545; 2588; 2675; 2849; 3240; 3267; 3776; 3833; 3866; 4211; 4645; 4663; 4674
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1442; 2963
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1408; 2929
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1441; 2962
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1410; 2931
HapII	C!CGG	24	601; 761; 1121; 1322; 1328; 1343; 1399; 1409; 1985; 2672; 2749; 2771; 2799; 2930; 3020; 3087; 3268; 3543; 3551; 3643; 4117; 4307; 4333; 4480
HgaI	GACGCNNNNN!	4	526; 1327; 3477; 3556
HgaI	!NNNNNNNNNNNGCGTC	3	2100; 3995; 4573
HhaI	GCG!C	28	597; 625; 814; 893; 934; 1096; 1286; 1288; 2033; 2041; 2067; 2089; 2098; 2111; 2142; 2761; 2769; 2833; 2870; 3136; 3396; 3572; 3658; 4061; 4170; 4344; 4444; 4511

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin1I	GR!CGYC	10	122; 175; 258; 444; 623; 812; 1319; 2767; 3469; 3548
Hin1III	CATG!	18	304; 364; 615; 870; 1215; 2197; 2337; 2409; 2500; 2641; 2986; 3172; 3203; 3229; 3585; 3969; 4689; 4740
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1356; 1441; 2962
Hin4I	!NNNNNNNGABNNNNNRTC	3	1409; 2930; 2960
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1441; 2962; 2992
Hin4I	!NNNNNNNGAYNNNNNVTC	3	1324; 1409; 2930
Hin6I	G!CGC	28	595; 623; 812; 891; 932; 1094; 1284; 1286; 2031; 2039; 2065; 2087; 2096; 2109; 2140; 2759; 2767; 2831; 2868; 3134; 3394; 3570; 3656; 4059; 4168; 4342; 4442; 4509
HinP1I	G!CGC	28	595; 623; 812; 891; 932; 1094; 1284; 1286; 2031; 2039; 2065; 2087; 2096; 2109; 2140; 2759; 2767; 2831; 2868; 3134; 3394; 3570; 3656; 4059; 4168; 4342; 4442; 4509
HincII	GTY!RAC	2	1383; 1530
HindII	GTY!RAC	2	1383; 1530
HindIII	A!AGCTT	1	1364
HinfI	G!ANTC	12	410; 1023; 1810; 1832; 2242; 3252; 3386; 3438; 3496; 3533; 4315; 4711
HpaI	GTT!AAC	1	1530
HpaII	C!CGG	24	601; 761; 1121; 1322; 1328; 1343; 1399; 1409; 1985; 2672; 2749; 2771; 2799; 2930; 3020; 3087; 3268; 3543; 3551; 3643; 4117; 4307; 4333; 4480
HphI	GGTGANNNNNNN!	5	376; 804; 951; 3838; 3954
HphI	!NNNNNNNTCACC	6	891; 1032; 1110; 1243; 1884; 2945
Hpy8I	GTN!NAC	11	201; 539; 577; 963; 1191; 1383; 1530; 1814; 1831; 1886; 4373
Hpy99I	CGWCG!	9	1321; 1387; 2857; 2885; 3179; 3194; 3471; 3856; 4589
Hpy166II	GTN!NAC	11	201; 539; 577; 963; 1191; 1383; 1530; 1814; 1831; 1886; 4373
Hpy188I	TCN!GA	12	585; 1351; 1941; 2550; 2734; 3078; 3431; 3532; 4011; 4145; 4498; 4576
Hpy188III	TC!NNGA	26	924; 948; 996; 1027; 1328; 1355; 1415; 2194; 2246; 2559; 2612; 2785; 3101; 3110; 3193; 3249; 3293; 3383; 3416; 3485; 3966; 4040; 4123; 4221; 4319; 4453
HpyAV	CCTTCNNNNNN!	7	699; 912; 954; 1107; 3412; 3519; 4198
HpyAV	!NNNNNGAAGG	10	840; 993; 1266; 2000; 2895; 3624; 3640; 3823; 4140; 4450
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 1281; 1387; 1858; 3147; 3263; 3371; 3694; 4185; 4655; 4726
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 653; 881; 1010; 1193; 1223; 1827; 1839; 1882; 1992; 2883; 3070; 3851; 3984
HpyCH4V	TG!CA	21	755; 866; 885; 1191; 1378; 1516; 1543; 1611; 2328; 2337; 2400; 2409; 2524; 2600; 2659; 2818; 2993; 3007; 4077; 4373; 4740
HpyF3I	C!TNAG	8	1231; 1348; 2247; 2549; 3430; 3879; 4002; 4411
HpyF10VI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 701; 722; 761; 818; 1091; 1130; 1994; 2024; 2051; 2093; 2334; 2406; 2457; 2536; 2758; 2842; 2865; 3004; 3127; 3210; 3477; 3664; 3868; 4067; 4639
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 623; 812; 1319; 2767; 3469; 3548
Hsp92II	CATG!	18	304; 364; 615; 870; 1215; 2197; 2337; 2409; 2500; 2641; 2986; 3172; 3203; 3229; 3585; 3969; 4689; 4740
HspAI	G!CGC	28	595; 623; 812; 891; 932; 1094; 1284; 1286; 2031; 2039; 2065; 2087; 2096; 2109; 2140; 2759; 2767; 2831; 2868; 3134; 3394; 3570; 3656; 4059; 4168; 4342; 4442; 4509
KasI	G!GCGCC	3	622; 811; 2766
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	1391
Kpn2I	T!CCGGA	1	1327
KspI	CCGC!GG	2	702; 1394
Ksp22I	T!GATCA	1	1424
KspAI	GTT!AAC	1	1530
Kzo9I	!GATC	26	585; 644; 1068; 1115; 1149; 1248; 1351; 1402; 1411; 1424; 2604; 2608; 2627; 2938; 3016; 3097; 3106; 3184; 3560; 3576; 3935; 3947; 4025; 4033; 4044; 4119
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	1084; 3111; 3321
LpnI	RGC!GCV	8	596; 624; 813; 1095; 2032; 2040; 2768; 4443

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	CCDGNNNNNNNNN!	63	102; 295; 614; 640; 735; 757; 774; 792; 814; 829; 1000; 1066; 1099; 1134; 1171; 1282; 1335; 1356; 1412; 1504; 1809; 1998; 2221; 2259; 2275; 2315; 2370; 2387; 2487; 2572; 2685; 2762; 2784; 2807; 2943; 2957; 2976; 3033; 3100; 3150; 3166; 3223; 3281; 3490; 3556; 3580; 3656; 3745; 3848; 3881; 4112; 4130; 4276; 4296; 4320; 4346; 4395; 4493; 4538; 4568; 4647; 4672; 4709
LpnPI	!NNNNNNNNNNNNNCHGG	55	75; 268; 552; 586; 746; 765; 871; 973; 1000; 1047; 1106; 1307; 1328; 1384; 1850; 1970; 2027; 2090; 2288; 2300; 2360; 2372; 2604; 2649; 2692; 2734; 2756; 2784; 2831; 2893; 2915; 3005; 3072; 3095; 3139; 3234; 3253; 3278; 3427; 3528; 3571; 3628; 3718; 3821; 3848; 3866; 4102; 4139; 4292; 4318; 4458; 4476; 4511; 4592; 4645
Lsp1109I	GCAGCNNNNNNNN!	9	629; 968; 1136; 1555; 2840; 2882; 3403; 3856; 4356
Lsp1109I	!NNNNNNNNNNNNNGCTGC	7	850; 2049; 2714; 2898; 2991; 4057; 4263
LweI	GCATCNNNNN!	7	704; 1583; 2346; 2418; 3066; 3130; 3405
LweI	!NNNNNNNNNNNGATGC	7	357; 708; 729; 2725; 2980; 3196; 4588
MabI	A!CCWGGT	1	2356
MaeI	C!TAG	8	592; 1415; 1616; 2034; 2590; 3605; 3939; 4192
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 653; 881; 1010; 1193; 1223; 1827; 1839; 1882; 1992; 2883; 3070; 3851; 3984
MaeIII	!GTNAC	15	61; 148; 497; 792; 939; 1242; 1555; 2056; 2068; 2887; 3193; 3883; 4149; 4265; 4328
MaiI	GA!TC	26	587; 646; 1070; 1117; 1151; 1250; 1353; 1404; 1413; 1426; 2606; 2610; 2629; 2940; 3018; 3099; 3108; 3186; 3562; 3578; 3937; 3949; 4027; 4035; 4046; 4121
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2191; 3380
MbiI	GAG!CGG	2	2027; 3434
MboI	!GATC	26	585; 644; 1068; 1115; 1149; 1248; 1351; 1402; 1411; 1424; 2604; 2608; 2627; 2938; 3016; 3097; 3106; 3184; 3560; 3576; 3935; 3947; 4025; 4033; 4044; 4119
MboII	GAAGANNNNNNNN!	6	1101; 2023; 2251; 3128; 3338; 3957
MboII	!NNNNNNNTCTTC	4	3418; 3585; 3785; 4028
McaTI	GCGC!GC	1	1287
MfeI	C!AATTG	1	1517
MfiI	R!GATCY	12	585; 644; 1351; 1402; 1411; 2938; 3184; 3576; 3935; 3947; 4033; 4044
MhiI	GDGCH!C	15	773; 779; 787; 1193; 1199; 1362; 1399; 1958; 2713; 2806; 2880; 3070; 3132; 3842; 4375
MisI	TGG!CCA	4	683; 986; 1007; 2849
MluI	A!CGCGT	1	1653
MluNI	TGG!CCA	4	683; 986; 1007; 2849
MlyI	GAGTCNNNNN!	2	1819; 2251
MlyI	!NNNNNGACTC	4	404; 1826; 3432; 4309
Mly113I	GG!CGCC	3	623; 812; 2767
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1860
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4292; 4476
MniI	CCTCNNNNNNN!	7	1486; 2550; 3368; 3574; 3888; 4258; 4582
MniI	!NNNNNGAGG	16	541; 660; 900; 930; 1446; 1911; 2242; 2520; 2563; 2578; 2618; 2682; 2818; 3175; 3605; 4508
Mph1103I	ATGCA!T	3	2339; 2411; 4742
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1327
MroNI	G!CCGGC	3	1984; 3267; 3550
MroXI	GAANN!NN TTC	1	850
MscI	TGG!CCA	4	683; 986; 1007; 2849
MseI	T!TAA	15	7; 1468; 1529; 1650; 1671; 1682; 1694; 1705; 1722; 1820; 2091; 3910; 3924; 3929; 3981
MslI	CAYNN!NNRTG	4	365; 790; 1159; 3204
MspI	C!CGG	24	601; 761; 1121; 1322; 1328; 1343; 1399; 1409; 1985; 2672; 2749; 2771; 2799; 2930; 3020; 3087; 3268; 3543; 3551; 3643; 4117; 4307; 4333; 4480
Msp20I	TGG!CCA	4	683; 986; 1007; 2849
MspA1I	CMG!CKG	7	620; 701; 1393; 2265; 2873; 4102; 4347
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	241	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 639; 654; 697; 712; 734; 755; 773; 786; 801; 814; 827; 840; 856; 870; 883; 898; 918; 936; 960; 982; 999; 1021; 1039; 1058; 1074; 1088; 1113; 1133; 1155; 1169; 1183; 1198; 1211; 1224; 1243; 1259; 1281; 1297; 1312; 1334; 1349; 1362; 1375; 1404; 1421; 1435; 1450; 1474; 1491; 1504; 1545; 1559; 1572; 1590; 1628; 1643; 1661; 1702; 1726; 1746; 1764; 1785; 1808; 1840; 1855; 1877; 1895; 1908; 1929; 1946; 1959; 1972; 1988; 2001; 2031; 2046; 2071; 2089; 2102; 2117; 2141; 2155; 2179; 2204; 2220; 2258; 2274; 2313; 2327; 2341; 2369; 2385; 2399; 2413; 2442; 2455; 2476; 2485; 2507; 2537; 2553; 2571; 2601; 2624; 2648; 2672; 2691; 2719; 2745; 2761; 2774; 2797; 2811; 2831; 2844; 2858; 2877; 2891; 2904; 2920; 2935; 2948; 2964; 2979; 2995; 3020; 3039; 3055; 3068; 3081; 3099; 3113; 3127; 3143; 3165; 3181; 3200; 3222; 3238; 3261; 3280; 3294; 3310; 3324; 3344; 3360; 3373; 3395; 3428; 3442; 3462; 3475; 3489; 3543; 3556; 3579; 3592; 3611; 3628; 3655; 3691; 3724; 3743; 3768; 3789; 3816; 3829; 3846; 3860; 3875; 3891; 3951; 3976; 3992; 4014; 4027; 4041; 4072; 4086; 4111; 4129; 4144; 4157; 4176; 4189; 4204; 4233; 4252; 4270; 4295; 4310; 4329; 4345; 4364; 4382; 4398; 4412; 4431; 4458; 4481; 4503; 4522; 4537; 4550; 4567; 4587; 4614; 4627; 4646; 4671; 4694; 4708; 4721; 4738
MspJI	!NNNNNNNNNNNNYNG	202	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 598; 623; 640; 661; 678; 698; 718; 738; 758; 775; 794; 814; 844; 866; 890; 910; 932; 956; 973; 995; 1012; 1039; 1057; 1092; 1114; 1144; 1161; 1178; 1198; 1218; 1241; 1267; 1288; 1308; 1328; 1349; 1378; 1395; 1419; 1448; 1477; 1519; 1602; 1640; 1664; 1687; 1716; 1760; 1782; 1814; 1850; 1867; 1888; 1925; 1945; 1962; 1979; 2014; 2032; 2050; 2067; 2091; 2113; 2140; 2168; 2194; 2232; 2253; 2270; 2288; 2311; 2332; 2360; 2383; 2404; 2422; 2443; 2460; 2483; 2507; 2527; 2545; 2567; 2598; 2620; 2646; 2665; 2682; 2710; 2729; 2748; 2766; 2784; 2805; 2827; 2851; 2884; 2904; 2922; 2943; 2969; 2996; 3013; 3030; 3047; 3073; 3095; 3117; 3135; 3155; 3174; 3196; 3234; 3254; 3278; 3298; 3318; 3345; 3369; 3402; 3421; 3449; 3471; 3500; 3528; 3553; 3572; 3591; 3612; 3629; 3646; 3677; 3704; 3724; 3747; 3767; 3804; 3821; 3840; 3866; 3886; 3925; 3952; 3971; 3989; 4026; 4044; 4085; 4103; 4129; 4146; 4178; 4207; 4235; 4256; 4279; 4298; 4319; 4337; 4354; 4372; 4398; 4419; 4439; 4459; 4477; 4498; 4524; 4541; 4560; 4579; 4608; 4627; 4645; 4664; 4682; 4700; 4723
MspR9I	CC!NGG	20	90; 283; 780; 790; 988; 1399; 1400; 2303; 2358; 2375; 2771; 2931; 3154; 3544; 3733; 3836; 4308; 4526; 4539; 4660
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1517
MvaI	CC!WGG	14	90; 283; 780; 790; 988; 2303; 2358; 2375; 3154; 3733; 3836; 4526; 4539; 4660
Mva1269I	GAATGCN!	1	1518
Mva1269I	G!CATTC	1	1611
MvnI	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1393; 1655; 1691; 2067; 2087; 2111; 2142; 2833; 3134; 3572; 3656; 3719; 3788; 4061; 4642
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 701; 722; 761; 818; 1091; 1130; 1994; 2024; 2051; 2093; 2334; 2406; 2457; 2536; 2758; 2842; 2865; 3004; 3127; 3210; 3477; 3664; 3868; 4067; 4639
NaeI	GCC!GGC	3	1986; 3269; 3552
NarI	GG!CGCC	3	623; 812; 2767
NciI	CC!SGG	6	1399; 1400; 2771; 2931; 3544; 4308
NcoI	C!CATGG	3	360; 2496; 3199
NdeI	CA!TATG	1	234
NdeII	!GATC	26	585; 644; 1068; 1115; 1149; 1248; 1351; 1402; 1411; 1424; 2604; 2608; 2627; 2938; 3016; 3097; 3106; 3184; 3560; 3576; 3935; 3947; 4025; 4033; 4044; 4119
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	2	280; 818
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	2	244; 782
NgoMIV	G!CCGGC	3	1984; 3267; 3550

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NheI	G!CTAGC	1	591
NlaIII	CATG!	18	304; 364; 615; 870; 1215; 2197; 2337; 2409; 2500; 2641; 2986; 3172; 3203; 3229; 3585; 3969; 4689; 4740
NlaIV	GGN!NCC	22	467; 624; 813; 837; 1185; 1326; 1389; 1397; 1404; 1922; 1943; 1955; 2146; 2307; 2379; 2768; 2803; 3651; 3730; 3775; 4618; 4657
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	921; 1599; 1914; 3506
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4578
Nli3877I	CYCGR!G	4	842; 1202; 1359; 1402
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	960; 2556; 2992
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2521
NmeDI	RCCGGYNNNNNNNN!	8	612; 772; 1132; 1333; 1996; 3098; 3279; 3562
NmeDI	!NNNNNNNNNNNNRCCGGY	8	587; 747; 1107; 1308; 1971; 3073; 3254; 3537
NmuCI	!GTSAC	6	792; 939; 1242; 2056; 2887; 3193
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2869
NsiI	ATGCA!T	3	2339; 2411; 4742
NspI	RCATG!Y	5	870; 2337; 2409; 3172; 4689
NspV	TT!CGAA	2	1369; 3449
OliI	CACNN!NNGTG	1	790
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 833; 965; 1058; 1205; 1390; 3074
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	870; 2337; 2409; 3172
PaeR7I	C!TCGAG	1	1355
PagI	T!CATGA	2	2193; 3965
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3732; 3835
PauI	G!CGCGC	1	1284
PceI	AGG!CCT	1	2588
PciI	A!CATGT	1	4685
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	1084; 3111; 3321
PcsI	WCGNNNN!NNNCGW	6	3061; 3138; 3381; 3455; 3848; 4366
PctI	GAATGCN!	1	1518
PctI	G!CATTC	1	1611
PdiI	GCC!GGC	3	1986; 3269; 3552
PdmI	GAANN!NNTTC	1	850
PfeI	G!AWTC	6	1023; 3252; 3386; 3496; 3533; 4711
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2885
PfIMI	CCANNNN!NTGG	1	1014
PfoI	T!CCNGGA	1	3542
PhoI	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1397; 1733; 1875; 2530; 2536; 2545; 2588; 2675; 2849; 3240; 3267; 3776; 3833; 3866; 4211; 4645; 4663; 4674
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3148
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2713; 2968
PleI	GAGTCNNNN!	2	1818; 2250
PleI	!NNNNNGACTC	4	404; 1826; 3432; 4309
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	3	1011; 1194; 1224
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	3	1011; 1194; 1224
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1849
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3979
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4011
PpiI	!NNNNNNNGAACNNNNNCTC	1	1817
Ppsi	GAGTCNNNN!	2	1818; 2250
Ppsi	!NNNNNGACTC	4	404; 1826; 3432; 4309
Ppu10I	A!TGCAT	3	2335; 2407; 4738
Ppu21I	YAC!GTR	8	340; 654; 882; 1011; 1194; 1224; 1883; 3071
PpuMI	RG!GWCCY	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PscI	A!CATGT	1	4685
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1550; 1755
Psp03I	GGWC!C	2	3286; 3731
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	14	88; 281; 778; 788; 986; 2301; 2356; 2373; 3152; 3731; 3834; 4524; 4537; 4658
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1362
PspCI	CAC!GTG	3	1011; 1194; 1224
PspEI	G!GTNACC	2	792; 939
PspGI	!CCWGG	14	88; 281; 778; 788; 986; 2301; 2356; 2373; 3152; 3731; 3834; 4524; 4537; 4658
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 624; 813; 837; 1185; 1326; 1389; 1397; 1404; 1922; 1943; 1955; 2146; 2307; 2379; 2768; 2803; 3651; 3730; 3775; 4618; 4657
PspOMI	G!GGCCC	1	1395
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	4	125; 839; 2497; 3496
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2899
PspPI	G!GNCC	11	83; 276; 835; 1183; 1396; 1874; 3283; 3728; 3774; 3832; 3865
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2320; 2392; 3898
PspPRI	!NNNNNNNNNNNNNNCTGRGG	3	1048; 2233; 3428
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3868
PstI	CTGCA!G	1	1380
PstNI	CAGNN!CTG	2	3868; 4276
PsuI	R!GATCY	12	585; 644; 1351; 1402; 1411; 2938; 3184; 3576; 3935; 3947; 4033; 4044
PsyI	GACN!NNGTC	1	2885
PteI	G!CGCGC	1	1284
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2265; 2873
RcaI	T!CATGA	2	2193; 3965
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3282
RceI	!NNNNNNNNNNNNNNNNNGTTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	1496
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 832; 964; 1057; 1204; 1389; 3073
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 831; 963; 1056; 1203; 1388; 3072
RseI	CAYNN!NNRTG	4	365; 790; 1159; 3204
RsrII	CG!GWCCG	1	3283
Rsr2I	CG!GWCCG	1	3283
SacI	GAGCT!C	1	1362
SacII	CCG!GG	2	702; 1394
SalI	G!TCGAC	1	1381
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	1084; 3111; 3321
SaqAI	T!TAA	15	7; 1468; 1529; 1650; 1671; 1682; 1694; 1705; 1722; 1820; 2091; 3910; 3924; 3929; 3981

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SatI	GC!NGC	37	618; 621; 702; 864; 957; 1125; 1179; 1182; 1299; 1544; 2063; 2085; 2099; 2537; 2676; 2728; 2739; 2829; 2834; 2871; 2912; 2999; 3002; 3005; 3241; 3337; 3378; 3392; 3506; 3845; 3860; 4071; 4277; 4280; 4345; 4488; 4643
Sau96I	G!GNCC	11	83; 276; 835; 1183; 1396; 1874; 3283; 3728; 3774; 3832; 3865
Sau3AI	!GATC	26	585; 644; 1068; 1115; 1149; 1248; 1351; 1402; 1411; 1424; 2604; 2608; 2627; 2938; 3016; 3097; 3106; 3184; 3560; 3576; 3935; 3947; 4025; 4033; 4044; 4119
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1819; 2251
SchI	!NNNNNGACTC	4	404; 1826; 3432; 4309
SciI	CTC!GAG	1	1357
ScrFI	CC!NGG	20	90; 283; 780; 790; 988; 1399; 1400; 2303; 2358; 2375; 2771; 2931; 3154; 3544; 3733; 3836; 4308; 4526; 4539; 4660
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	5	912; 2345; 2417; 2586; 4528
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2922; 3407
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	773; 779; 787; 1193; 1199; 1362; 1399; 1958; 2713; 2806; 2880; 3070; 3132; 3842; 4375
SelI	!CGCG	21	58; 699; 930; 969; 1254; 1284; 1391; 1653; 1689; 2065; 2085; 2109; 2140; 2831; 3132; 3570; 3654; 3717; 3786; 4059; 4640
SetI	ASST!	69	125; 137; 178; 261; 308; 342; 447; 552; 568; 656; 691; 737; 808; 845; 865; 884; 904; 941; 946; 980; 1013; 1196; 1219; 1226; 1232; 1309; 1342; 1362; 1368; 1457; 1478; 1487; 1499; 1548; 1715; 1830; 1842; 1885; 1922; 1972; 1995; 2119; 2267; 2362; 2555; 2668; 2796; 2875; 2886; 2958; 3029; 3073; 3333; 3479; 3523; 3854; 3885; 3944; 3987; 4130; 4151; 4250; 4387; 4402; 4421; 4433; 4477; 4523; 4574
SexAI	A!CCWGGT	1	2356
SfaI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	704; 1583; 2346; 2418; 3066; 3130; 3405
SfaNI	!NNNNNNNNNGATGC	7	357; 708; 729; 2725; 2980; 3196; 4588
SfcI	C!TRYAG	4	1376; 2102; 4229; 4420
SfiI	GGCCNNNN!NGGCC	1	2542
SfoI	GGC!GCC	3	624; 813; 2768
Sfr274I	C!TCGAG	1	1355
Sfr303I	CCGC!GG	2	702; 1394
SfuI	TT!CGAA	2	1369; 3449
SgeI	CNNGNNNNNNNNN!	193	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 639; 654; 712; 734; 756; 773; 786; 801; 828; 850; 870; 883; 898; 918; 936; 960; 982; 999; 1021; 1039; 1065; 1084; 1098; 1123; 1140; 1155; 1170; 1198; 1212; 1234; 1248; 1267; 1281; 1297; 1314; 1334; 1349; 1367; 1404; 1421; 1474; 1503; 1545; 1628; 1666; 1702; 1786; 1808; 1840; 1877; 1895; 1914; 1929; 1971; 1988; 2005; 2040; 2054; 2071; 2093; 2117; 2141; 2206; 2220; 2258; 2274; 2314; 2327; 2346; 2369; 2386; 2399; 2418; 2448; 2469; 2486; 2509; 2544; 2571; 2602; 2624; 2650; 2672; 2691; 2719; 2755; 2774; 2797; 2811; 2831; 2844; 2858; 2877; 2891; 2910; 2942; 2956; 2969; 2995; 3026; 3039; 3056; 3073; 3087; 3104; 3122; 3137; 3165; 3181; 3200; 3222; 3238; 3261; 3280; 3305; 3324; 3344; 3371; 3395; 3428; 3447; 3475; 3489; 3555; 3579; 3594; 3617; 3638; 3655; 3703; 3730; 3744; 3773; 3797; 3830; 3847; 3867; 3880; 3893; 3951; 3978; 3997; 4027; 4052; 4072; 4086; 4111; 4129; 4166; 4204; 4233; 4261; 4275; 4295; 4310; 4331; 4345; 4364; 4382; 4398; 4438; 4458; 4485; 4503; 4524; 4537; 4550; 4567; 4591; 4614; 4646; 4671; 4698; 4720

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	169	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 623; 640; 686; 708; 730; 747; 765; 787; 814; 844; 868; 892; 910; 934; 956; 973; 995; 1013; 1039; 1058; 1097; 1114; 1144; 1172; 1198; 1222; 1241; 1267; 1288; 1308; 1329; 1349; 1378; 1395; 1448; 1477; 1519; 1602; 1640; 1676; 1760; 1782; 1814; 1851; 1869; 1888; 1945; 1962; 1979; 2014; 2032; 2052; 2072; 2091; 2115; 2180; 2232; 2288; 2320; 2343; 2360; 2392; 2422; 2443; 2460; 2483; 2518; 2545; 2576; 2598; 2624; 2646; 2665; 2693; 2729; 2748; 2771; 2792; 2810; 2827; 2851; 2884; 2916; 2943; 2969; 3000; 3030; 3047; 3073; 3096; 3117; 3139; 3159; 3179; 3196; 3235; 3254; 3279; 3298; 3318; 3345; 3369; 3402; 3421; 3449; 3471; 3529; 3553; 3572; 3591; 3612; 3629; 3677; 3704; 3724; 3747; 3771; 3804; 3821; 3841; 3867; 3925; 3952; 3971; 4001; 4026; 4046; 4085; 4103; 4140; 4178; 4207; 4235; 4256; 4284; 4305; 4338; 4356; 4412; 4432; 4459; 4477; 4498; 4524; 4541; 4565; 4588; 4620; 4645; 4672; 4694; 4723
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	760
SgrBI	CCGC!GG	2	702; 1394
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1914; 3701; 4494
SimI	!GACCC	5	106; 926; 3195; 3763; 4011
SinI	G!GWCC	2	3283; 3728
SlaI	C!TCGAG	1	1355
SmaI	CCC!GGG	1	1400
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 790; 1159; 3204
SmlI	C!TYRAG	6	1355; 1361; 3158; 4040; 4317; 4579
SmoI	C!TYRAG	6	1355; 1361; 3158; 4040; 4317; 4579
SmuI	CCCGCNNNN!	9	93; 119; 286; 937; 2089; 2444; 2465; 3661; 3793
SmuI	!NNNNNNGCGGG	6	1386; 2020; 2890; 3427; 3565; 3712
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	870; 2337; 2409; 3172
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	18; 918; 1035; 1371; 1517; 1581; 1659; 1685; 1696; 2343; 2415; 2507; 3925
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2588
SsiI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 699; 930; 1254; 1299; 1391; 2082; 2085; 2099; 2189; 2437; 2449; 2458; 2470; 2480; 2491; 2537; 2676; 2739; 3241; 3286; 3352; 3378; 3503; 3506; 3654; 3786; 4093; 4237; 4733
SsiI	G!CGG	28	370; 403; 528; 620; 701; 1178; 1181; 1393; 2027; 2054; 2142; 2252; 2833; 2897; 2998; 3001; 3281; 3336; 3434; 3572; 3719; 3859; 4102; 4347; 4468; 4487; 4614; 4642
SspI	AAT!ATT	2	1675; 2228
SspDI	G!GCGCC	3	622; 811; 2766
SspD5I	GGTGANNNNNNNN!	5	376; 804; 951; 3838; 3954
SspD5I	!NNNNNNNNNTCACC	6	890; 1031; 1109; 1242; 1883; 2944
SstI	GAGCT!C	1	1362
SstII	CCGC!GG	2	702; 1394
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 779; 845; 878; 936; 1193; 1205; 1405; 1966; 2088; 2443; 2464; 2777; 3180; 3319; 3390; 3660; 3792; 4022; 4460
Sth132I	!NNNNNNNNNCGGG	19	15; 407; 470; 1385; 1967; 2019; 2120; 2847; 2889; 2922; 3426; 3535; 3564; 3711; 3815; 3846; 4299; 4343; 4551
Sth302II	CC!GG	24	602; 762; 1122; 1323; 1329; 1344; 1400; 1410; 1986; 2673; 2750; 2772; 2800; 2931; 3021; 3088; 3269; 3544; 3552; 3644; 4118; 4308; 4334; 4481
StrI	C!TCGAG	1	1355
StsI	GGATGNNNNNNNNNN!	8	692; 752; 1016; 1253; 2635; 3092; 3117; 3571
StsI	!NNNNNNNNNNNNNNCATCC	2	681; 2439

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StuI	AGG CCT	1	2588
StyI	C CWGG	5	360; 2496; 2589; 3199; 3604
StyD4I	!CCNGG	20	88; 281; 778; 788; 986; 1397; 1398; 2301; 2356; 2373; 2769; 2929; 3152; 3542; 3731; 3834; 4306; 4524; 4537; 4658
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 1281; 1387; 1858; 3147; 3263; 3371; 3694; 4185; 4655; 4726
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 656; 884; 1013; 1196; 1226; 1830; 1842; 1885; 1995; 2886; 3073; 3854; 3987
TaqI	T!CGA	17	905; 947; 1316; 1356; 1369; 1382; 1916; 2607; 2880; 3036; 3060; 3096; 3258; 3449; 3494; 3749; 4587
TaqII	GACCGANNNNNNNNNN!	4	1261; 1787; 2804; 3472
TaqII	!NNNNNNNNNTCGGTC	1	3716
TaqII	CACCCANNNNNNNNNN!	1	1171
TaqII	!NNNNNNNNNTGGGTG	3	172; 2671; 3263
TasI	!AATT	13	18; 918; 1035; 1371; 1517; 1581; 1659; 1685; 1696; 2343; 2415; 2507; 3925
TatI	W!GTACW	6	217; 297; 330; 381; 962; 1055
TauI	GCSG C	20	623; 704; 1181; 1184; 1301; 2087; 2101; 2539; 2678; 2741; 2836; 3001; 3004; 3243; 3339; 3380; 3508; 3862; 4490; 4645
TfiI	G!AWTC	6	1023; 3252; 3386; 3496; 3533; 4711
TliI	C!TCGAG	1	1355
TruII	T!TAA	15	7; 1468; 1529; 1650; 1671; 1682; 1694; 1705; 1722; 1820; 2091; 3910; 3924; 3929; 3981
Tru9I	T!TAA	15	7; 1468; 1529; 1650; 1671; 1682; 1694; 1705; 1722; 1820; 2091; 3910; 3924; 3929; 3981
TscAI	CASTGNN!	7	823; 1054; 1613; 2896; 4006; 4277; 4290
TseI	G!CWGC	17	617; 863; 956; 1124; 1543; 2062; 2727; 2828; 2870; 2911; 3004; 3391; 3844; 4070; 4276; 4279; 4344
TsoI	TARCCANNNNNNNNNN!	2	1739; 2086
TsoI	!NNNNNNNNNTGGYTA	3	866; 1544; 3296
Tsp45I	!GTSAC	6	792; 939; 1242; 2056; 2887; 3193
Tsp509I	!AATT	13	18; 918; 1035; 1371; 1517; 1581; 1659; 1685; 1696; 2343; 2415; 2507; 3925
TspDTI	ATGAANNNNNNNNNN!	4	1177; 1525; 2826; 3530
TspDTI	!NNNNNNNNNTTCAT	6	26; 738; 1128; 3244; 3700; 3907
TspEI	!AATT	13	18; 918; 1035; 1371; 1517; 1581; 1659; 1685; 1696; 2343; 2415; 2507; 3925
TspGWI	ACGGANNNNNNNNNN!	1	3642
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1398
TspRI	CASTGNN!	7	823; 1054; 1613; 2896; 4006; 4277; 4290
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2885
Tth111II	CAARCANNNNNNNNNN!	1	4094
Tth111III	!NNNNNNNNNTGYTTG	3	3202; 4062; 4101
UnbI	!GGNCC	11	82; 275; 834; 1182; 1395; 1873; 3282; 3727; 3773; 3831; 3864
Van91I	CCANNNN!NTGG	1	1014
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	1189; 4371
VpaK11AI	!GGWCC	2	3282; 3727
VpaK11BI	G!GWCC	2	3283; 3728
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1371; 1581; 1685; 1696
XbaI	T!CTAGA	1	1414
XceI	RCATG!Y	5	870; 2337; 2409; 3172; 4689
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1355
XhoII	R!GATCY	12	585; 644; 1351; 1402; 1411; 2938; 3184; 3576; 3935; 3947; 4033; 4044
XmaI	C!CCGGG	1	1398
XmaJI	C!CTAGG	2	2589; 3604

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmiI	GT!MKAC	1	1382
XmnI	GAANN!NNTTC	1	850
XspI	C!TAG	8	592; 1415; 1616; 2034; 2590; 3605; 3939; 4192
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2339; 2411; 4742