

pPA-TagRFP-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	1532; 1737
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1820; 2776; 4565
AatI	AGG!CCT	1	2570
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	3	1091; 1193; 1364
AccII	CG!CG	16	60; 1375; 1637; 1673; 2049; 2069; 2093; 2124; 2815; 3116; 3554; 3638; 3701; 3770; 4043; 4624
AccIII	T!CCGGA	1	1324
Acc16I	TGC!GCA	1	2851
Acc36I	ACCTGCNNNN!	2	3017; 3467
Acc36I	!NNNNNNNNGCAGGT	1	2636
Acc65I	G!GTACC	1	1369
AccB1I	G!GYRCC	7	465; 667; 727; 1369; 1902; 2748; 2783
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	2173; 3362
AccBSI	GAG!CGG	2	2009; 3416
AceIII	CAGCTCNNNNNNN!	1	1705
AceIII	!NNNNNNNNNNGAGCTG	2	552; 613
AciI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 926; 1064; 1166; 1206; 1373; 2064; 2067; 2081; 2171; 2419; 2431; 2440; 2452; 2462; 2473; 2519; 2658; 2721; 3223; 3268; 3334; 3360; 3485; 3488; 3636; 3768; 4075; 4219; 4715
AciI	G!CGG	28	370; 403; 528; 595; 761; 1073; 1115; 1375; 2009; 2036; 2124; 2234; 2815; 2879; 2980; 2983; 3263; 3318; 3416; 3554; 3701; 3841; 4084; 4329; 4450; 4469; 4596; 4624
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	1392; 1401; 2617; 2928; 3174; 3566; 3925; 4023; 4109
AclWI	!NNNNNGATCC	7	580; 1148; 1379; 2993; 3537; 3924; 4021
AcoI	Y!GGCCR	6	599; 1271; 2655; 2829; 3220; 3247
AcsI	R!AATTY	4	1353; 1563; 1667; 1678
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	1123; 2895; 3327
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4125
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	8	122; 175; 258; 444; 1190; 2749; 3451; 3530
AdeI	CACNNN!GTG	2	1263; 1865
AfaI	GT!AC	10	219; 244; 299; 332; 383; 540; 658; 808; 1371; 3055
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	22	49; 724; 837; 854; 1003; 1069; 1212; 1761; 2087; 2479; 2730; 3274; 3555; 3587; 3719; 3754; 3804; 3836; 4189; 4468; 4634; 4652
AfII	C!TTAAG	0	
AfIII	A!CRYGT	2	1635; 4667
AgeI	A!CCGGT	0	
AgsI	TTS!AA	7	690; 1140; 2160; 2204; 2214; 2627; 4203
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
Ajni	!CCWGG	16	88; 281; 788; 836; 932; 947; 1076; 2283; 2338; 2355; 3134; 3713; 3816; 4506; 4519; 4640
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	2	607; 1310
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2323; 2395
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	2289; 2361
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	2	1014; 1831
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	982; 1799
AluI	AG!CT	18	566; 627; 654; 800; 1107; 1342; 1348; 1528; 1695; 1952; 2247; 2535; 2855; 3313; 4110; 4367; 4413; 4503
AluBI	AG!CT	18	566; 627; 654; 800; 1107; 1342; 1348; 1528; 1695; 1952; 2247; 2535; 2855; 3313; 4110; 4367; 4413; 4503
AlwI	GGATCNNNN!	9	1392; 1401; 2617; 2928; 3174; 3566; 3925; 4023; 4109
AlwI	!NNNNNGATCC	7	580; 1148; 1379; 2993; 3537; 3924; 4021
Alw21I	GWGCW!C	6	697; 1048; 1344; 2862; 3052; 4357
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1234; 2173; 2591; 3610; 3738
Alw44I	G!TGCAC	2	693; 4353
AlwNI	CAGNN!CTG	2	3850; 4258
Ama87I	C!YCGRG	2	1337; 1380
Aor13HI	T!CCGGA	1	1324
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	1	1381
ApaBI	GCANNNNN!TGC	3	2317; 2389; 3851
ApaLI	G!TGCAC	2	693; 4353
ApeKI	G!CWGC	17	812; 815; 956; 1254; 1525; 2044; 2709; 2810; 2852; 2893; 2986; 3373; 3826; 4052; 4258; 4261; 4326
ApoI	R!AATTY	4	1353; 1563; 1667; 1678
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3264
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3058; 3711; 4549
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3148
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	788
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1341; 2577
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3319
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	24	586; 978; 1128; 1154; 1334; 1385; 1394; 1407; 2587; 2591; 2610; 2921; 2999; 3080; 3089; 3167; 3543; 3559; 3918; 3930; 4008; 4016; 4027; 4102
AsiGI	A!CCGGT	0	
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2867
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	1369
AspA2I	C!CTAGG	2	2571; 3586
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	20	2015; 2023; 2049; 2071; 2080; 2093; 2124; 2743; 2751; 2815; 2852; 3118; 3378; 3554; 3640; 4043; 4152; 4326; 4426; 4493
AspS9I	G!GNCC	14	83; 276; 763; 1006; 1098; 1119; 1203; 1378; 1856; 3265; 3710; 3756; 3814; 3847
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1351; 3431
AsuC2I	CC!SGG	7	1187; 1381; 1382; 2753; 2913; 3526; 4290
AsuHPI	GGTGANNNNNNNNN!	4	376; 999; 3820; 3936
AsuHPI	!NNNNNNNTCACC	3	888; 1866; 2927
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	1337; 1380
AvaII	G!GWCC	3	1203; 3265; 3710
AviII	TGC!GCA	1	2851
AvrII	C!CTAGG	2	2571; 3586
AxyI	CC!TNAGG	3	872; 2229; 3861

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BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	670; 697; 730; 1307; 1381; 2695; 2788; 4357
BalI	TGG!CCA	3	601; 1273; 2831
BamHI	G!GATCC	1	1384
BanI	G!GYRCC	7	465; 667; 727; 1369; 1902; 2748; 2783
BanII	GRGCY!C	5	1344; 1381; 1940; 3114; 3824
BanIII	AT!CGAT	1	2589
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	0	
BauI	C!ACGAG	3	1258; 3467; 4494
BauI	C!TCGTG	2	1108; 3341
BbeI	GGCGC!C	1	2752
Bbr7I	GAAGACNNNNNN!	1	919
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	914
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2319; 2391; 3154
BbvI	GCAGCNNNNNN!	8	824; 1266; 1537; 2822; 2864; 3385; 3838; 4338
BbvI	!NNNNNNNNNNNGCTGC	7	943; 2031; 2696; 2880; 2973; 4039; 4245
Bbv12I	GWGCW!C	6	697; 1048; 1344; 2862; 3052; 4357
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1005; 1879; 2443; 2969; 3471
BccI	!NNNNNGATGG	3	1847; 2627; 3055
BceAI	ACGGCNNNNNNNNNN!	6	825; 969; 1020; 1086; 3175; 3662
BceAI	!NNNNNNNNNNNGCCGT	3	1890; 2708; 4167
Bcefl	ACGGCNNNNNNNNNN!	6	825; 969; 1020; 1086; 3175; 3662
Bcefl	!NNNNNNNNNNNGCCGT	3	1891; 2709; 4168
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	2178; 2968; 4469
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1406
BcnI	CC!SGG	7	1187; 1381; 1382; 2753; 2913; 3526; 4290
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	1429; 4602
BdaI	!NNNNNNNNNNTGANNNNNTCA	2	1395; 4568
BfaI	C!TAG	9	592; 1292; 1397; 1598; 2016; 2572; 3587; 3921; 4174
BfiI	ACTGGGNNNN!	3	1257; 1309; 2698
BfiI	!NNNCCCAGT	2	289; 2450
BfmI	C!TRYAG	4	1358; 2084; 4211; 4402
BfoI	RGCGC!Y	4	2016; 2024; 2752; 4427
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNN!	3	2178; 2968; 4469
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3017; 3467
BfuAI	!NNNNNNNGCAGGT	1	2636
BfuCI	!GATC	24	585; 977; 1127; 1153; 1333; 1384; 1393; 1406; 2586; 2590; 2609; 2920; 2998; 3079; 3088; 3166; 3542; 3558; 3917; 3929; 4007; 4015; 4026; 4101
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1082; 2524
BglII	A!GATCT	1	1333
BisI	GC!NGC	34	762; 813; 816; 957; 1074; 1255; 1526; 2045; 2067; 2081; 2519; 2658; 2710; 2721; 2811; 2816; 2853; 2894; 2981; 2984; 2987; 3223; 3319; 3360; 3374; 3488; 3827; 3842; 4053; 4259; 4262; 4327; 4470; 4625

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BlnI	C!CTAGG	2	2571; 3586
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	34	763; 814; 817; 958; 1075; 1256; 1527; 2046; 2068; 2082; 2520; 2659; 2711; 2722; 2812; 2817; 2854; 2895; 2982; 2985; 2988; 3224; 3320; 3361; 3375; 3489; 3828; 3843; 4054; 4260; 4263; 4328; 4471; 4626
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1203; 3265; 3710
Bme1390I	CC!NGG	23	90; 283; 790; 838; 934; 949; 1078; 1187; 1381; 1382; 2285; 2340; 2357; 2753; 2913; 3136; 3526; 3715; 3818; 4290; 4508; 4521; 4642
BmeRI	GACNN!NNGTC	0	
BmeT110I	C!YCGRG	2	1337; 1380
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	14	84; 277; 764; 1007; 1099; 1120; 1204; 1379; 1857; 3266; 3711; 3757; 3815; 3848
BmiI	GGN!NCC	22	467; 669; 729; 1040; 1120; 1323; 1371; 1379; 1386; 1904; 1925; 1937; 2128; 2289; 2361; 2750; 2785; 3633; 3712; 3757; 4600; 4639
BmrI	ACTGGGNNNNN!	3	1257; 1309; 2698
BmrI	!NNNNCCCAGT	2	289; 2450
BmrFI	CC!NGG	23	90; 283; 790; 838; 934; 949; 1078; 1187; 1381; 1382; 2285; 2340; 2357; 2753; 2913; 3136; 3526; 3715; 3818; 4290; 4508; 4521; 4642
BmsI	GCATCNNNNN!	7	851; 1565; 2328; 2400; 3048; 3112; 3387
BmsI	!NNNNNNNNNGATGC	6	357; 1172; 2707; 2962; 3178; 4570
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	3	1257; 1309; 2698
BmuI	!NNNNCCCAGT	2	289; 2450
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	1	914
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2538; 3437
BpI	!NNNNNNNNGAGNNNNNNCTC	2	2506; 3405
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3589
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	2	931; 3532
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1351; 3431
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	914
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4043; 4582
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	4	1162; 1328; 3125; 4284
BpuMI	CC!SGG	7	1187; 1381; 1382; 2753; 2913; 3526; 4290
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1234; 3738
Bsa29I	AT!CGAT	1	2589
BsaAI	YAC!GTR	3	340; 1865; 3053
BsaBI	GATNN!NNATC	2	1411; 2608
BsaHI	GR!CGYC	8	122; 175; 258; 444; 1190; 2749; 3451; 3530
BsaJI	C!CNNGG	22	360; 605; 701; 836; 837; 932; 1373; 1380; 2283; 2355; 2478; 2513; 2522; 2571; 2912; 3181; 3586; 3713; 3714; 3816; 3817; 4507
BsaMI	GAATGCN!	1	1500
BsaMI	G!CATTC	1	1593
BsaWI	W!CCGGW	6	1324; 1390; 2780; 3624; 4314; 4461
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1829
BsaXI	!NNNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	1799
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1750; 3657

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Bsc4I	CCNNNNN!NNGG	22	49; 724; 837; 854; 1003; 1069; 1212; 1761; 2087; 2479; 2730; 3274; 3555; 3587; 3719; 3754; 3804; 3836; 4189; 4468; 4634; 4652
BscAI	GCATCNNNN!	7	850; 1564; 2327; 2399; 3047; 3111; 3386
BscAI	!NNNNNNGATGC	6	360; 1175; 2710; 2965; 3181; 4573
BseI	ACTGGN!	6	1217; 1252; 1304; 2693; 2894; 4140
BseI	C!CAGT	5	295; 1778; 2456; 4252; 4265
Bse8I	GATNN!NNATC	2	1411; 2608
Bse21I	CC!TNAGG	3	872; 2229; 3861
Bse118I	R!CCGGY	4	1966; 3068; 3249; 3532
BseAI	T!CCGGA	1	1324
BseBI	CC!WGG	16	90; 283; 790; 838; 934; 949; 1078; 2285; 2340; 2357; 3136; 3715; 3818; 4508; 4521; 4642
BseCI	AT!CGAT	1	2589
BseDI	C!CNNGG	22	360; 605; 701; 836; 837; 932; 1373; 1380; 2283; 2355; 2478; 2513; 2522; 2571; 2912; 3181; 3586; 3713; 3714; 3816; 3817; 4507
Bse3DI	GCAATGNN!	1	2982
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2609; 3066; 3091; 3545
BseGI	!CATCC	5	697; 785; 842; 997; 2435
BseJI	GATNN!NNATC	2	1411; 2608
BseLI	CCNNNNN!NNGG	22	49; 724; 837; 854; 1003; 1069; 1212; 1761; 2087; 2479; 2730; 3274; 3555; 3587; 3719; 3754; 3804; 3836; 4189; 4468; 4634; 4652
BseMI	GCAATGNN!	1	2982
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	1344; 3875
BseMII	!NNNNNNNNCTGAG	6	863; 2220; 2522; 3403; 3975; 4384
BseNI	ACTGGN!	6	1217; 1252; 1304; 2693; 2894; 4140
BseNI	C!CAGT	5	295; 1778; 2456; 4252; 4265
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1331; 2567
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI:C	8	670; 697; 730; 1307; 1381; 2695; 2788; 4357
BseXI	GCAGCNNNNNNNN!	8	824; 1266; 1537; 2822; 2864; 3385; 3838; 4338
BseXI	!NNNNNNNNNNNGCTGC	7	943; 2031; 2696; 2880; 2973; 4039; 4245
BseX3I	C!GGCCG	1	2655
BseYI	C!CCAGC	3	2292; 2364; 4363
BseYI	G!CTGGG	2	1034; 3253
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	16	60; 1375; 1637; 1673; 2049; 2069; 2093; 2124; 2815; 3116; 3554; 3638; 3701; 3770; 4043; 4624
Bsh1285I	CGRY!CG	2	2658; 4333
BshFI	GG!CC	28	84; 277; 601; 764; 1007; 1076; 1099; 1121; 1231; 1273; 1379; 1715; 1857; 2512; 2518; 2527; 2570; 2657; 2831; 3222; 3249; 3758; 3815; 3848; 4193; 4627; 4645; 4656
BshNI	G!GYRCC	7	465; 667; 727; 1369; 1902; 2748; 2783
BshTI	A!CCGGT	0	
BshVI	AT!CGAT	1	2589
BsiEI	CGRY!CG	2	2658; 4333
BsiHKAI	GWGCW!C	6	697; 1048; 1344; 2862; 3052; 4357
BsiHKCI	C!YCGRG	2	1337; 1380
BsiSI	C!CGG	20	1187; 1325; 1381; 1391; 1967; 2654; 2731; 2753; 2781; 2912; 3002; 3069; 3250; 3525; 3533; 3625; 4099; 4289; 4315; 4462
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	49; 724; 837; 854; 1003; 1069; 1212; 1761; 2087; 2479; 2730; 3274; 3555; 3587; 3719; 3754; 3804; 3836; 4189; 4468; 4634; 4652
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2900; 3432; 3541
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2265; 2337; 2401; 3696
BsmI	GAATGCN!	1	1500
BsmI	G!CATTC	1	1593
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	1234; 2173; 2591; 3610; 3738

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BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2900; 3432; 3541
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2265; 2337; 2401; 3696
BsnI	GG!CC	28	84; 277; 601; 764; 1007; 1076; 1099; 1121; 1231; 1273; 1379; 1715; 1857; 2512; 2518; 2527; 2570; 2657; 2831; 3222; 3249; 3758; 3815; 3848; 4193; 4627; 4645; 4656
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACG	2	1234; 3738
BsoBI	C!YCGRG	2	1337; 1380
Bsp13I	T!CCGGA	1	1324
Bsp19I	C!CATGG	4	360; 605; 2478; 3181
Bsp24I	GACNNNNNNTGGNNNNNNNNNN!	2	289; 3552
Bsp24I	!NNNNNNNCCANNNNNNNGTC	2	3973; 4151
Bsp24I	CCANNNNNNGTCCNNNNNNNNNNNN!	2	4005; 4183
Bsp24I	!NNNNNNNNGACNNNNNNNTGG	2	257; 3520
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1351; 3431
Bsp120I	G!GGCCC	1	1377
Bsp143I	!GATC	24	585; 977; 1127; 1153; 1333; 1384; 1393; 1406; 2586; 2590; 2609; 2920; 2998; 3079; 3088; 3166; 3542; 3558; 3917; 3929; 4007; 4015; 4026; 4101
Bsp1286I	GDGCH!C	15	670; 697; 730; 1048; 1307; 1344; 1381; 1940; 2695; 2788; 2862; 3052; 3114; 3824; 4357
Bsp1407I	T!GTACA	1	656
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 926; 1064; 1166; 1206; 1373; 2064; 2067; 2081; 2171; 2419; 2431; 2440; 2452; 2462; 2473; 2519; 2658; 2721; 3223; 3268; 3334; 3360; 3485; 3488; 3636; 3768; 4075; 4219; 4715
BspACI	G!CGG	28	370; 403; 528; 595; 761; 1073; 1115; 1375; 2009; 2036; 2124; 2234; 2815; 2879; 2980; 2983; 3263; 3318; 3416; 3554; 3701; 3841; 4084; 4329; 4450; 4469; 4596; 4624
BspCNI	CTCAGNNNNNNNNNN!	2	1343; 3874
BspCNI	!NNNNNNNCTGAG	6	864; 2221; 2523; 3404; 3976; 4385
BspDI	AT!CGAT	1	2589
BspD6I	GACTCNNNN!	5	418; 1336; 1822; 3428; 4305
BspD6I	!NNNNNNNGAGTC	3	886; 1785; 2217
BspEI	T!CCGGA	1	1324
BspFNI	CG!CG	16	60; 1375; 1637; 1673; 2049; 2069; 2093; 2124; 2815; 3116; 3554; 3638; 3701; 3770; 4043; 4624
BspHI	T!CATGA	2	2175; 3947
BspLI	GGN!NCC	22	467; 669; 729; 1040; 1120; 1323; 1371; 1379; 1386; 1904; 1925; 1937; 2128; 2289; 2361; 2750; 2785; 3633; 3712; 3757; 4600; 4639
BspMI	ACCTGCNNNN!	2	3017; 3467
BspMI	!NNNNNNNNGCAGGT	1	2636
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	1392; 1401; 2617; 2928; 3174; 3566; 3925; 4023; 4109
BspPI	!NNNNNGATCC	7	580; 1148; 1379; 2993; 3537; 3924; 4021
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	617; 3093; 3303
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1351; 3431
BspT107I	G!GYRCC	7	465; 667; 727; 1369; 1902; 2748; 2783
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACG	2	1234; 3738
BsrI	ACTGGN!	6	1217; 1252; 1304; 2693; 2894; 4140
BsrI	C!CAGT	5	295; 1778; 2456; 4252; 4265
BsrBI	CCG!CTC	2	2173; 3362
BsrBI	GAG!CGG	2	2009; 3416
BsrDI	GCAATGNN!	1	2982
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	4	1966; 3068; 3249; 3532
BsrGI	T!GTACA	1	656
BsrSI	ACTGGN!	6	1217; 1252; 1304; 2693; 2894; 4140

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	C!CAGT	5	295; 1778; 2456; 4252; 4265
BssAI	R!CCGGY	4	1966; 3068; 3249; 3532
BssECI	C!CNNGG	22	360; 605; 701; 836; 837; 932; 1373; 1380; 2283; 2355; 2478; 2513; 2522; 2571; 2912; 3181; 3586; 3713; 3714; 3816; 3817; 4507
BssHII	G!CGCGC	0	
BssKI	!CCNGG	23	88; 281; 788; 836; 932; 947; 1076; 1185; 1379; 1380; 2283; 2338; 2355; 2751; 2911; 3134; 3524; 3713; 3816; 4288; 4506; 4519; 4640
BssMI	!GATC	24	585; 977; 1127; 1153; 1333; 1384; 1393; 1406; 2586; 2590; 2609; 2920; 2998; 3079; 3088; 3166; 3542; 3558; 3917; 3929; 4007; 4015; 4026; 4101
BssNI	GR!CGYC	8	122; 175; 258; 444; 1190; 2749; 3451; 3530
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1258; 3467; 4494
BssSI	C!TCGTG	2	1108; 3341
BssTII	C!CWWGG	6	360; 605; 2478; 2571; 3181; 3586
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	4	617; 2216; 3093; 3303
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 1190; 2749; 3451; 3530
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2316; 2388; 3850
BstAUI	T!GTACA	1	656
BstBI	TT!CGAA	2	1351; 3431
Bst2BI	C!ACGAG	3	1258; 3467; 4494
Bst2BI	C!TCGTG	2	1108; 3341
BstBAI	YAC!GTR	3	340; 1865; 3053
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 672; 1369; 1840; 3129; 3245; 3353; 3676; 4167; 4637; 4708
BstC8I	GCN!NGC	30	86; 279; 593; 715; 919; 1377; 1968; 2011; 2025; 2298; 2317; 2370; 2389; 2643; 2829; 3048; 3114; 3120; 3152; 3193; 3197; 3251; 3534; 3721; 3768; 3824; 3846; 4057; 4617; 4654
BstDEI	C!TNAG	10	614; 872; 1169; 1330; 2229; 2531; 3412; 3861; 3984; 4393
BstDSI	C!CRYGG	5	360; 605; 1373; 2478; 3181
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2609; 3066; 3091; 3545
BstF5I	!CATCC	5	697; 785; 842; 997; 2435
BstFNI	CG!CG	16	60; 1375; 1637; 1673; 2049; 2069; 2093; 2124; 2815; 3116; 3554; 3638; 3701; 3770; 4043; 4624
BstH2I	RGCGC!Y	4	2016; 2024; 2752; 4427
BstHHI	GCG!C	20	2015; 2023; 2049; 2071; 2080; 2093; 2124; 2743; 2751; 2815; 2852; 3118; 3378; 3554; 3640; 4043; 4152; 4326; 4426; 4493
BstKTI	GAT!C	24	588; 980; 1130; 1156; 1336; 1387; 1396; 1409; 2589; 2593; 2612; 2923; 3001; 3082; 3091; 3169; 3545; 3561; 3920; 3932; 4010; 4018; 4029; 4104
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	5	1234; 2173; 2591; 3610; 3738
BstMBI	!GATC	24	585; 977; 1127; 1153; 1333; 1384; 1393; 1406; 2586; 2590; 2609; 2920; 2998; 3079; 3088; 3166; 3542; 3558; 3917; 3929; 4007; 4015; 4026; 4101
BstMCI	CGRY!CG	2	2658; 4333
BstMWI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 651; 1082; 1976; 2006; 2033; 2075; 2316; 2388; 2439; 2518; 2740; 2824; 2847; 2986; 3109; 3192; 3459; 3646; 3850; 4049; 4621
BstNI	CC!WGG	16	90; 283; 790; 838; 934; 949; 1078; 2285; 2340; 2357; 3136; 3715; 3818; 4508; 4521; 4642
BstNSI	RCATG!Y	5	645; 2319; 2391; 3154; 4671
BstOI	CC!WGG	16	90; 283; 790; 838; 934; 949; 1078; 2285; 2340; 2357; 3136; 3715; 3818; 4508; 4521; 4642
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	23	88; 281; 788; 836; 932; 947; 1076; 1185; 1379; 1380; 2283; 2338; 2355; 2751; 2911; 3134; 3524; 3713; 3816; 4288; 4506; 4519; 4640

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSFI	C!TRYAG	4	1358; 2084; 4211; 4402
BstSLI	GKGCMI!C	8	670; 697; 730; 1307; 1381; 2695; 2788; 4357
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	16	60; 1375; 1637; 1673; 2049; 2069; 2093; 2124; 2815; 3116; 3554; 3638; 3701; 3770; 4043; 4624
Bst2UI	CC!WGG	16	90; 283; 790; 838; 934; 949; 1078; 2285; 2340; 2357; 3136; 3715; 3818; 4508; 4521; 4642
BstV1I	GCAGCNNNNNNNN!	8	824; 1266; 1537; 2822; 2864; 3385; 3838; 4338
BstV1I	!NNNNNNNNNNNGCTGC	7	943; 2031; 2696; 2880; 2973; 4039; 4245
BstV2I	GAAGACNN!	1	914
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	12	585; 1153; 1333; 1384; 1393; 2920; 3166; 3558; 3917; 3929; 4015; 4026
BstYI	R!GATCY	12	585; 1153; 1333; 1384; 1393; 2920; 3166; 3558; 3917; 3929; 4015; 4026
BstZI	C!GGCCG	1	2655
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2178; 2968; 4469
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2589
Bsu36I	CC!TNAGG	3	872; 2229; 3861
BsuRI	GG!CC	28	84; 277; 601; 764; 1007; 1076; 1099; 1121; 1231; 1273; 1379; 1715; 1857; 2512; 2518; 2527; 2570; 2657; 2831; 3222; 3249; 3758; 3815; 3848; 4193; 4627; 4645; 4656
BsuTUI	AT!CGAT	1	2589
BtgI	C!CRYGG	5	360; 605; 1373; 2478; 3181
BtgZI	GCGATGNNNNNNNNNN!	2	1866; 3201
BtgZI	!NNNNNNNNNNNNNNNNCATCGC	3	334; 3020; 3364
BthCI	GCNG!C	34	764; 815; 818; 959; 1076; 1257; 1528; 2047; 2069; 2083; 2521; 2660; 2712; 2723; 2813; 2818; 2855; 2896; 2983; 2986; 2989; 3225; 3321; 3362; 3376; 3490; 3829; 3844; 4055; 4261; 4264; 4329; 4472; 4627
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1588
BtsCI	GGATGNN!	4	2609; 3066; 3091; 3545
BtsCI	!CATCC	5	697; 785; 842; 997; 2435
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3017; 3467
BveI	!NNNNNNNNNGCAGGT	1	2636
Cac8I	GCN!NGC	30	86; 279; 593; 715; 919; 1377; 1968; 2011; 2025; 2298; 2317; 2370; 2389; 2643; 2829; 3048; 3114; 3120; 3152; 3193; 3197; 3251; 3534; 3721; 3768; 3824; 3846; 4057; 4617; 4654
CaiI	CAGNNN!CTG	2	3850; 4258
CciI	T!CATGA	2	2175; 3947
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 3038; 3043; 3241; 3382
CdiI	C!GATG	2	1852; 3187
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	4621
CdpI	!NNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2410; 2452
CelII	GC!TNAGC	0	
CfoI	GCG!C	20	2015; 2023; 2049; 2071; 2080; 2093; 2124; 2743; 2751; 2815; 2852; 3118; 3378; 3554; 3640; 4043; 4152; 4326; 4426; 4493
CfrI	Y!GGCCR	6	599; 1271; 2655; 2829; 3220; 3247
Cfr9I	C!CCGGG	1	1380
Cfr10I	R!CCGGY	4	1966; 3068; 3249; 3532
Cfr13I	G!GNCC	14	83; 276; 763; 1006; 1098; 1119; 1203; 1378; 1856; 3265; 3710; 3756; 3814; 3847
Cfr42I	CCGC!GG	1	1376
ChaI	GATC!	24	589; 981; 1131; 1157; 1337; 1388; 1397; 1410; 2590; 2594; 2613; 2924; 3002; 3083; 3092; 3170; 3546; 3562; 3921; 3933; 4011; 4019; 4030; 4105
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	709; 2566; 4006; 4106; 4184
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2233; 2328; 3520; 4070; 4625
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNNNN!	7	98; 291; 2267; 2362; 3554; 4104; 4659

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjeI	!NNNNNNNNCCANNNNNNGT	5	675; 2532; 3972; 4072; 4150
CjePI	CCANNNNNNNNTCANNNNNNNNNNNN!	2	4006; 4184
CjePI	!NNNNNNNNGANNNNNNNNTGG	5	257; 734; 1231; 3520; 4119
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	5	290; 767; 1264; 3553; 4152
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	3973; 4151
Clal	AT!CGAT	1	2589
CpoI	CG!GWCCG	1	3265
CseI	GACGCNNNNN!	3	526; 3459; 3538
CseI	!NNNNNNNNNNNGCGTC	4	1179; 2082; 3977; 4555
CsiI	A!CCWGGT	1	2338
Cspi	CG!GWCCG	1	3265
Csp6I	G!TAC	10	218; 243; 298; 331; 382; 539; 657; 807; 1370; 3054
Csp45I	TT!CGAA	2	1351; 3431
CspAI	A!CCGGT	0	
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	659; 1250; 2029; 3638
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	23	301; 361; 606; 642; 648; 660; 738; 804; 884; 1095; 2176; 2316; 2388; 2479; 2620; 2965; 3151; 3182; 3208; 3564; 3948; 4668; 4719
CviJI	RG!CY	93	42; 84; 93; 277; 566; 601; 627; 654; 717; 764; 793; 800; 878; 944; 956; 1007; 1034; 1076; 1099; 1107; 1121; 1231; 1267; 1273; 1342; 1348; 1379; 1418; 1528; 1695; 1715; 1857; 1938; 1952; 1966; 2247; 2288; 2360; 2483; 2512; 2518; 2527; 2535; 2558; 2570; 2576; 2657; 2674; 2682; 2709; 2734; 2818; 2827; 2831; 2855; 2893; 2969; 2986; 3005; 3068; 3112; 3122; 3139; 3222; 3249; 3253; 3290; 3313; 3329; 3509; 3536; 3597; 3719; 3758; 3815; 3822; 3829; 3848; 3859; 4110; 4139; 4182; 4193; 4258; 4337; 4362; 4367; 4413; 4503; 4601; 4627; 4645; 4656
CviKI-1	RG!CY	93	42; 84; 93; 277; 566; 601; 627; 654; 717; 764; 793; 800; 878; 944; 956; 1007; 1034; 1076; 1099; 1107; 1121; 1231; 1267; 1273; 1342; 1348; 1379; 1418; 1528; 1695; 1715; 1857; 1938; 1952; 1966; 2247; 2288; 2360; 2483; 2512; 2518; 2527; 2535; 2558; 2570; 2576; 2657; 2674; 2682; 2709; 2734; 2818; 2827; 2831; 2855; 2893; 2969; 2986; 3005; 3068; 3112; 3122; 3139; 3222; 3249; 3253; 3290; 3313; 3329; 3509; 3536; 3597; 3719; 3758; 3815; 3822; 3829; 3848; 3859; 4110; 4139; 4182; 4193; 4258; 4337; 4362; 4367; 4413; 4503; 4601; 4627; 4645; 4656
CviQI	G!TAC	10	218; 243; 298; 331; 382; 539; 657; 807; 1370; 3054
DdeI	C!TNAG	10	614; 872; 1169; 1330; 2229; 2531; 3412; 3861; 3984; 4393
DinI	GGC!GCC	1	2750
DpnI	GA!TC	24	587; 979; 1129; 1155; 1335; 1386; 1395; 1408; 2588; 2592; 2611; 2922; 3000; 3081; 3090; 3168; 3544; 3560; 3919; 3931; 4009; 4017; 4028; 4103
DpnII	!GATC	24	585; 977; 1127; 1153; 1333; 1384; 1393; 1406; 2586; 2590; 2609; 2920; 2998; 3079; 3088; 3166; 3542; 3558; 3917; 3929; 4007; 4015; 4026; 4101
DraI	TTT!AAA	3	1451; 3893; 3912
DraII	RG!GNCCY	1	3847
DraIII	CACNNN!GTG	2	1263; 1865
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	266; 4229
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1820; 2776; 4565
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1820; 2776; 4565
EaeI	Y!GGCCR	6	599; 1271; 2655; 2829; 3220; 3247
EagI	C!GGCCG	1	2655
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	4	617; 2216; 3093; 3303
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	617; 2216; 3093; 3303

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EciI	GGCGGANNNNNNNNNNN!	4	2249; 3278; 4465; 4611
EciI	!NNNNNNNNNTCCGCC	4	496; 2420; 2441; 2462
Ecl136II	GAG!CTC	1	1342
EclXI	C!GGCCG	1	2655
Eco24I	GRGCI!C	5	1344; 1381; 1940; 3114; 3824
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1234; 3738
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1203; 3265; 3710
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	1	2655
Eco57I	CTGAAGNNNNNNNNNNNNNNN!	3	1123; 2895; 3327
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4125
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	872; 2229; 3861
Eco88I	C!YCGRG	2	1337; 1380
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 605; 2478; 2571; 3181; 3586
Eco147I	AGG!CCT	1	2570
EcoHI	!CCSGG	7	1185; 1379; 1380; 2751; 2911; 3524; 4288
EcoICRI	GAG!CTC	1	1342
Eco57MI	CTGRAGNNNNNNNNNNNNNNN!	4	1123; 2895; 3327; 3589
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	931; 3532; 4125
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	3847
EcoRI	G!AATTC	1	1353
EcoRII	!CCWGG	16	88; 281; 788; 836; 932; 947; 1076; 2283; 2338; 2355; 3134; 3713; 3816; 4506; 4519; 4640
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 605; 2478; 2571; 3181; 3586
EcoT22I	ATGCA!T	3	2321; 2393; 4724
EcoT38I	GRGCI!C	5	1344; 1381; 1940; 3114; 3824
Eco53kI	GAG!CTC	1	1342
EgeI	GGC!GCC	1	2750
EheI	GGC!GCC	1	2750
ErhI	C!CWWGG	6	360; 605; 2478; 2571; 3181; 3586
EsaBC3I	TC!GA	17	756; 783; 1092; 1339; 1352; 1365; 1899; 2590; 2863; 3019; 3043; 3079; 3241; 3432; 3477; 3732; 4570
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	23	304; 364; 609; 645; 651; 663; 741; 807; 887; 1098; 2179; 2319; 2391; 2482; 2623; 2968; 3154; 3185; 3211; 3567; 3951; 4671; 4722
Fail	YA!TR	62	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 607; 643; 649; 661; 739; 805; 885; 903; 1096; 1149; 1199; 1411; 1421; 1487; 1532; 1737; 2165; 2177; 2308; 2317; 2380; 2389; 2413; 2480; 2504; 2621; 2685; 2966; 2991; 3152; 3183; 3209; 3281; 3497; 3565; 3643; 3695; 3856; 3873; 3875; 3877; 3949; 4227; 4416; 4532; 4605; 4669; 4720
FalI	AAGNNNNCTTNNNNNNNNNNN!	2	882; 3089
FalI	!NNNNNNNNAAGNNNNNCTT	2	850; 3057
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2900; 3432; 3541
FaqI	!NNNNNNNNNNNNNGTCCC	4	2265; 2337; 2401; 3696
FatI	!CATG	23	300; 360; 605; 641; 647; 659; 737; 803; 883; 1094; 2175; 2315; 2387; 2478; 2619; 2964; 3150; 3181; 3207; 3563; 3947; 4667; 4718
FauI	CCCGCNNNN!	10	93; 119; 286; 1071; 1173; 2071; 2426; 2447; 3643; 3775
FauI	!NNNNNGCGGG	7	1108; 1368; 2002; 2872; 3409; 3547; 3694
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	1406
FblI	GT!MKAC	3	1091; 1193; 1364
FmuI	GGNC!C	14	86; 279; 766; 1009; 1101; 1122; 1206; 1381; 1859; 3268; 3713; 3759; 3817; 3850

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	34	762; 813; 816; 957; 1074; 1255; 1526; 2045; 2067; 2081; 2519; 2658; 2710; 2721; 2811; 2816; 2853; 2894; 2981; 2984; 2987; 3223; 3319; 3360; 3374; 3488; 3827; 3842; 4053; 4259; 4262; 4327; 4470; 4625
FokI	GGATGNNNNNNNNN!	4	2616; 3073; 3098; 3552
FokI	!NNNNNNNNNNNNNNCATCC	5	684; 772; 829; 984; 2422
FriOI	GRGCY!C	5	1344; 1381; 1940; 3114; 3824
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2851
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1292; 1397; 1598; 2016; 2572; 3587; 3921; 4174
FspEI	CCNNNNNNNNNNNN!	157	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 615; 684; 714; 731; 745; 778; 792; 810; 834; 849; 879; 912; 939; 954; 973; 1009; 1055; 1076; 1090; 1113; 1135; 1158; 1178; 1199; 1219; 1245; 1287; 1303; 1338; 1386; 1401; 1432; 1471; 1485; 1626; 1721; 1745; 1768; 1791; 1809; 1831; 1852; 1871; 1890; 1919; 1940; 1954; 1980; 2068; 2094; 2143; 2184; 2202; 2241; 2257; 2295; 2352; 2367; 2424; 2444; 2458; 2475; 2489; 2526; 2541; 2584; 2667; 2734; 2765; 2785; 2800; 2845; 2859; 2925; 2939; 2958; 2974; 3015; 3035; 3082; 3132; 3148; 3168; 3193; 3213; 3236; 3263; 3281; 3307; 3347; 3373; 3397; 3453; 3467; 3495; 3538; 3559; 3594; 3638; 3726; 3750; 3772; 3792; 3808; 3829; 3843; 3862; 3946; 3966; 3994; 4009; 4043; 4085; 4112; 4127; 4172; 4196; 4210; 4232; 4258; 4278; 4302; 4328; 4376; 4395; 4414; 4440; 4475; 4520; 4550; 4564; 4615; 4629; 4654; 4670; 4691; 4720
FspEI	!NNNNNNNNNNNNNNNGG	130	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 580; 601; 619; 646; 688; 709; 733; 775; 794; 823; 859; 896; 919; 938; 968; 989; 1016; 1055; 1081; 1100; 1172; 1198; 1233; 1255; 1285; 1304; 1352; 1376; 1420; 1520; 1589; 1697; 1746; 1768; 1796; 1832; 1877; 1906; 1942; 1961; 1989; 2009; 2072; 2095; 2203; 2235; 2253; 2282; 2325; 2354; 2465; 2494; 2537; 2558; 2586; 2619; 2639; 2664; 2691; 2716; 2738; 2766; 2792; 2813; 2864; 2885; 2903; 2951; 2987; 3043; 3068; 3092; 3121; 3144; 3168; 3194; 3216; 3235; 3260; 3300; 3336; 3401; 3486; 3510; 3539; 3573; 3594; 3614; 3659; 3686; 3705; 3738; 3790; 3821; 3848; 3900; 3998; 4069; 4114; 4175; 4240; 4274; 4300; 4318; 4354; 4424; 4447; 4469; 4493; 4526; 4574; 4609; 4627; 4684
Fsp4HI	GC!NGC	34	762; 813; 816; 957; 1074; 1255; 1526; 2045; 2067; 2081; 2519; 2658; 2710; 2721; 2811; 2816; 2853; 2894; 2981; 2984; 2987; 3223; 3319; 3360; 3374; 3488; 3827; 3842; 4053; 4259; 4262; 4327; 4470; 4625
GdiII	C!GGCCR	1	2655
GdiII	Y!GGCCG	3	2655; 3220; 3247
GlaI	GC!GC	20	2014; 2022; 2048; 2070; 2079; 2092; 2123; 2742; 2750; 2814; 2851; 3117; 3377; 3553; 3639; 4042; 4151; 4325; 4425; 4492
GluI	GC!NGC	34	762; 813; 816; 957; 1074; 1255; 1526; 2045; 2067; 2081; 2519; 2658; 2710; 2721; 2811; 2816; 2853; 2894; 2981; 2984; 2987; 3223; 3319; 3360; 3374; 3488; 3827; 3842; 4053; 4259; 4262; 4327; 4470; 4625
GsaI	CCCAG!C	3	2296; 2368; 4367
GsaI	GCTGG!G	2	1038; 3257
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3589
GsuI	!NNNNNNNNNNNNNNNCTCCAG	2	931; 3532
HaeI	WGG!CCW	7	601; 1273; 2570; 2831; 4193; 4645; 4656
HaeII	RGCGC!Y	4	2016; 2024; 2752; 4427
HaeIII	GG!CC	28	84; 277; 601; 764; 1007; 1076; 1099; 1121; 1231; 1273; 1379; 1715; 1857; 2512; 2518; 2527; 2570; 2657; 2831; 3222; 3249; 3758; 3815; 3848; 4193; 4627; 4645; 4656
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	3	1235; 1424; 2945
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	3	1201; 1390; 2911
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	3	1234; 1423; 2944
HaeIV	!NNNNNNNGAYNNNNNNRTC	3	1203; 1392; 2913
HapII	C!CGG	20	1187; 1325; 1381; 1391; 1967; 2654; 2731; 2753; 2781; 2912; 3002; 3069; 3250; 3525; 3533; 3625; 4099; 4289; 4315; 4462
HgaI	GACGCNNNN!	3	526; 3459; 3538
HgaI	!NNNNNNNNNNNGCGTC	4	1179; 2082; 3977; 4555
HhaI	GCG!C	20	2015; 2023; 2049; 2071; 2080; 2093; 2124; 2743; 2751; 2815; 2852; 3118; 3378; 3554; 3640; 4043; 4152; 4326; 4426; 4493

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin1I	GR!CGYC	8	122; 175; 258; 444; 1190; 2749; 3451; 3530
Hin1III	CATG!	23	304; 364; 609; 645; 651; 663; 741; 807; 887; 1098; 2179; 2319; 2391; 2482; 2623; 2968; 3154; 3185; 3211; 3567; 3951; 4671; 4722
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1234; 1423; 2944
Hin4I	!NNNNNNNGABNNNNNRTC	4	1202; 1391; 2912; 2942
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	4	1234; 1423; 2944; 2974
Hin4I	!NNNNNNNGAYNNNNNVTC	3	1202; 1391; 2912
Hin6I	G!CGC	20	2013; 2021; 2047; 2069; 2078; 2091; 2122; 2741; 2749; 2813; 2850; 3116; 3376; 3552; 3638; 4041; 4150; 4324; 4424; 4491
HinP1I	G!CGC	20	2013; 2021; 2047; 2069; 2078; 2091; 2122; 2741; 2749; 2813; 2850; 3116; 3376; 3552; 3638; 4041; 4150; 4324; 4424; 4491
HincII	GTY!RAC	3	1092; 1365; 1512
HindII	GTY!RAC	3	1092; 1365; 1512
HindIII	A!AGCTT	1	1346
HinfI	G!ANTC	14	410; 743; 893; 1328; 1792; 1814; 2224; 3234; 3368; 3420; 3478; 3515; 4297; 4693
HpaI	GTT!AAC	1	1512
HpaII	C!CGG	20	1187; 1325; 1381; 1391; 1967; 2654; 2731; 2753; 2781; 2912; 3002; 3069; 3250; 3525; 3533; 3625; 4099; 4289; 4315; 4462
HphI	GGTGANNNNNNNN!	4	376; 999; 3820; 3936
HphI	!NNNNNNNTCACC	3	888; 1866; 2927
Hpy8I	GTN!NAC	15	201; 539; 577; 675; 695; 990; 1092; 1194; 1203; 1365; 1512; 1796; 1813; 1868; 4355
Hpy99I	CGWCG!	8	1369; 2839; 2867; 3161; 3176; 3453; 3838; 4571
Hpy166II	GTN!NAC	15	201; 539; 577; 675; 695; 990; 1092; 1194; 1203; 1365; 1512; 1796; 1813; 1868; 4355
Hpy188I	TCN!GA	15	585; 702; 982; 1284; 1333; 1923; 2532; 2716; 3060; 3413; 3514; 3993; 4127; 4480; 4558
Hpy188III	TC!NNGA	26	855; 975; 1140; 1179; 1325; 1337; 1397; 2176; 2228; 2541; 2594; 2767; 3083; 3092; 3175; 3231; 3275; 3365; 3398; 3467; 3948; 4022; 4105; 4203; 4301; 4435
HpyAV	CCTTCNNNNNN!	6	783; 831; 876; 3394; 3501; 4180
HpyAV	!NNNNNGAAGG	9	703; 1075; 1982; 2877; 3606; 3622; 3805; 4122; 4432
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 672; 1369; 1840; 3129; 3245; 3353; 3676; 4167; 4637; 4708
HpyCH4IV	A!CGT	15	122; 134; 175; 258; 339; 444; 971; 1809; 1821; 1864; 1974; 2865; 3052; 3833; 3966
HpyCH4V	TG!CA	20	645; 695; 1133; 1360; 1498; 1525; 1593; 2310; 2319; 2382; 2391; 2506; 2582; 2641; 2800; 2975; 2989; 4059; 4355; 4722
HpyF3I	C!TNAG	10	614; 872; 1169; 1330; 2229; 2531; 3412; 3861; 3984; 4393
HpyF10VI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 651; 1082; 1976; 2006; 2033; 2075; 2316; 2388; 2439; 2518; 2740; 2824; 2847; 2986; 3109; 3192; 3459; 3646; 3850; 4049; 4621
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 1190; 2749; 3451; 3530
Hsp92II	CATG!	23	304; 364; 609; 645; 651; 663; 741; 807; 887; 1098; 2179; 2319; 2391; 2482; 2623; 2968; 3154; 3185; 3211; 3567; 3951; 4671; 4722
HspAI	G!CGC	20	2013; 2021; 2047; 2069; 2078; 2091; 2122; 2741; 2749; 2813; 2850; 3116; 3376; 3552; 3638; 4041; 4150; 4324; 4424; 4491
KasI	G!GCGCC	1	2748
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	1373
Kpn2I	T!CCGGA	1	1324
KspI	CCGC!GG	1	1376
Ksp22I	T!GATCA	1	1406
KspAI	GTT!AAC	1	1512
Kzo9I	!GATC	24	585; 977; 1127; 1153; 1333; 1384; 1393; 1406; 2586; 2590; 2609; 2920; 2998; 3079; 3088; 3166; 3542; 3558; 3917; 3929; 4007; 4015; 4026; 4101
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	617; 3093; 3303
LpnI	RGC!GCV	4	2014; 2022; 2750; 4425

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	CCDGNNNNNNNNN!	60	102; 295; 745; 802; 850; 884; 946; 961; 1022; 1090; 1114; 1138; 1200; 1287; 1338; 1394; 1486; 1791; 1980; 2203; 2241; 2257; 2297; 2352; 2369; 2469; 2554; 2667; 2744; 2766; 2789; 2925; 2939; 2958; 3015; 3082; 3132; 3148; 3205; 3263; 3472; 3538; 3562; 3638; 3727; 3830; 3863; 4094; 4112; 4258; 4278; 4302; 4328; 4377; 4475; 4520; 4550; 4629; 4654; 4691
LpnPI	!NNNNNNNNNNNNCHGG	55	75; 268; 552; 775; 823; 919; 1020; 1063; 1172; 1198; 1233; 1285; 1310; 1366; 1832; 1952; 2009; 2072; 2270; 2282; 2342; 2354; 2586; 2631; 2674; 2716; 2738; 2766; 2813; 2875; 2897; 2987; 3054; 3077; 3121; 3216; 3235; 3260; 3409; 3510; 3553; 3610; 3700; 3803; 3830; 3848; 4084; 4121; 4274; 4300; 4440; 4458; 4493; 4574; 4627
Lsp1109I	GCAGCNNNNNNNN!	8	824; 1266; 1537; 2822; 2864; 3385; 3838; 4338
Lsp1109I	!NNNNNNNNNNNGCTGC	7	943; 2031; 2696; 2880; 2973; 4039; 4245
LweI	GCATCNNNNN!	7	851; 1565; 2328; 2400; 3048; 3112; 3387
LweI	!NNNNNNNNNGATGC	6	357; 1172; 2707; 2962; 3178; 4570
MabI	A!CCWGGT	1	2338
MaeI	C!TAG	9	592; 1292; 1397; 1598; 2016; 2572; 3587; 3921; 4174
MaeII	A!CGT	15	122; 134; 175; 258; 339; 444; 971; 1809; 1821; 1864; 1974; 2865; 3052; 3833; 3966
MaeIII	!GTNAC	13	61; 148; 497; 894; 1537; 2038; 2050; 2869; 3175; 3865; 4131; 4247; 4310
MalI	GA!TC	24	587; 979; 1129; 1155; 1335; 1386; 1395; 1408; 2588; 2592; 2611; 2922; 3000; 3081; 3090; 3168; 3544; 3560; 3919; 3931; 4009; 4017; 4028; 4103
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2173; 3362
MbiI	GAG!CGG	2	2009; 3416
MboI	!GATC	24	585; 977; 1127; 1153; 1333; 1384; 1393; 1406; 2586; 2590; 2609; 2920; 2998; 3079; 3088; 3166; 3542; 3558; 3917; 3929; 4007; 4015; 4026; 4101
MboII	GAAGANNNNNNNN!	8	634; 919; 1029; 2005; 2233; 3110; 3320; 3939
MboII	!NNNNNNNTCTTC	4	3400; 3567; 3767; 4010
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1499
MflI	R!GATCY	12	585; 1153; 1333; 1384; 1393; 2920; 3166; 3558; 3917; 3929; 4015; 4026
MhII	GDGCH!C	15	670; 697; 730; 1048; 1307; 1344; 1381; 1940; 2695; 2788; 2862; 3052; 3114; 3824; 4357
MisI	TGG!CCA	3	601; 1273; 2831
MluI	A!CGCGT	1	1635
MluNI	TGG!CCA	3	601; 1273; 2831
MlyI	GAGTCNNNNN!	3	902; 1801; 2233
MlyI	!NNNNNGACTC	5	404; 1322; 1808; 3414; 4291
Mly113I	GG!CGCC	1	2749
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	3	1025; 1307; 1842
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4274; 4458
MnII	CCTCNNNNNNN!	12	776; 955; 970; 1186; 1297; 1468; 2532; 3350; 3556; 3870; 4240; 4564
MnII	!NNNNNGAGG	22	541; 657; 696; 717; 750; 867; 976; 1221; 1254; 1303; 1428; 1893; 2224; 2502; 2545; 2560; 2600; 2664; 2800; 3157; 3587; 4490
Mph1103I	ATGCA!T	3	2321; 2393; 4724
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1324
MroNI	G!CCGGC	3	1966; 3249; 3532
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	3	601; 1273; 2831
MseI	T!TAA	16	7; 632; 1450; 1511; 1632; 1653; 1664; 1676; 1687; 1704; 1802; 2073; 3892; 3906; 3911; 3963
MslI	CAYNN!NNRTG	5	365; 607; 646; 1310; 3186
MspI	C!CGG	20	1187; 1325; 1381; 1391; 1967; 2654; 2731; 2753; 2781; 2912; 3002; 3069; 3250; 3525; 3533; 3625; 4099; 4289; 4315; 4462
Msp20I	TGG!CCA	3	601; 1273; 2831
MspA1I	CMG!CKG	6	1066; 1375; 2247; 2855; 4084; 4329
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	240	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; 618; 633; 654; 672; 702; 720; 735; 750; 768; 801; 816; 844; 859; 883; 896; 912; 930; 944; 960; 973; 987; 1008; 1021; 1042; 1055; 1069; 1089; 1107; 1120; 1137; 1152; 1169; 1189; 1219; 1236; 1256; 1270; 1286; 1303; 1318; 1337; 1351; 1364; 1386; 1403; 1417; 1432; 1456; 1473; 1486; 1527; 1541; 1554; 1572; 1610; 1625; 1643; 1684; 1708; 1728; 1746; 1767; 1790; 1822; 1837; 1859; 1877; 1890; 1911; 1928; 1941; 1954; 1970; 1983; 2013; 2028; 2053; 2071; 2084; 2099; 2123; 2137; 2161; 2186; 2202; 2240; 2256; 2295; 2309; 2323; 2351; 2367; 2381; 2395; 2424; 2437; 2458; 2467; 2489; 2519; 2535; 2553; 2583; 2606; 2630; 2654; 2673; 2701; 2727; 2743; 2756; 2779; 2793; 2813; 2826; 2840; 2859; 2873; 2886; 2902; 2917; 2930; 2946; 2961; 2977; 3002; 3021; 3037; 3050; 3063; 3081; 3095; 3109; 3125; 3147; 3163; 3182; 3204; 3220; 3243; 3262; 3276; 3292; 3306; 3326; 3342; 3355; 3377; 3410; 3424; 3444; 3457; 3471; 3525; 3538; 3561; 3574; 3593; 3610; 3637; 3673; 3706; 3725; 3750; 3771; 3798; 3811; 3828; 3842; 3857; 3873; 3933; 3958; 3974; 3996; 4009; 4023; 4054; 4068; 4093; 4111; 4126; 4139; 4158; 4171; 4186; 4215; 4234; 4252; 4277; 4292; 4311; 4327; 4346; 4364; 4380; 4394; 4413; 4440; 4463; 4485; 4504; 4519; 4532; 4549; 4569; 4596; 4609; 4628; 4653; 4676; 4690; 4703; 4720
MspJI	!NNNNNNNNNNNNYNG	197	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 592; 619; 646; 676; 700; 718; 742; 761; 783; 823; 840; 857; 890; 919; 961; 995; 1016; 1036; 1063; 1081; 1098; 1116; 1144; 1165; 1184; 1210; 1234; 1255; 1278; 1310; 1331; 1360; 1377; 1401; 1430; 1459; 1501; 1584; 1622; 1646; 1669; 1698; 1742; 1764; 1796; 1832; 1849; 1870; 1907; 1927; 1944; 1961; 1996; 2014; 2032; 2049; 2073; 2095; 2122; 2150; 2176; 2214; 2235; 2252; 2270; 2293; 2314; 2342; 2365; 2386; 2404; 2425; 2442; 2465; 2489; 2509; 2527; 2549; 2580; 2602; 2628; 2647; 2664; 2692; 2711; 2730; 2748; 2766; 2787; 2809; 2833; 2866; 2886; 2904; 2925; 2951; 2978; 2995; 3012; 3029; 3055; 3077; 3099; 3117; 3137; 3156; 3178; 3216; 3236; 3260; 3280; 3300; 3327; 3351; 3384; 3403; 3431; 3453; 3482; 3510; 3535; 3554; 3573; 3594; 3611; 3628; 3659; 3686; 3706; 3729; 3749; 3786; 3803; 3822; 3848; 3868; 3907; 3934; 3953; 3971; 4008; 4026; 4067; 4085; 4111; 4128; 4160; 4189; 4217; 4238; 4261; 4280; 4301; 4319; 4336; 4354; 4380; 4401; 4421; 4441; 4459; 4480; 4506; 4523; 4542; 4561; 4590; 4609; 4627; 4646; 4664; 4682; 4705
MspR9I	CC!NGG	23	90; 283; 790; 838; 934; 949; 1078; 1187; 1381; 1382; 2285; 2340; 2357; 2753; 2913; 3136; 3526; 3715; 3818; 4290; 4508; 4521; 4642
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1499
MvaI	CC!WGG	16	90; 283; 790; 838; 934; 949; 1078; 2285; 2340; 2357; 3136; 3715; 3818; 4508; 4521; 4642
Mva1269I	GAATGCN!	1	1500
Mva1269I	G!CATTC	1	1593
MvnI	CG!CG	16	60; 1375; 1637; 1673; 2049; 2069; 2093; 2124; 2815; 3116; 3554; 3638; 3701; 3770; 4043; 4624
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 651; 1082; 1976; 2006; 2033; 2075; 2316; 2388; 2439; 2518; 2740; 2824; 2847; 2986; 3109; 3192; 3459; 3646; 3850; 4049; 4621
NaeI	GCC!GGC	3	1968; 3251; 3534
NarI	GG!CGCC	1	2749
NciI	CC!SGG	7	1187; 1381; 1382; 2753; 2913; 3526; 4290
NcoI	C!CATGG	4	360; 605; 2478; 3181
NdeI	CA!TATG	1	234
NdeII	!GATC	24	585; 977; 1127; 1153; 1333; 1384; 1393; 1406; 2586; 2590; 2609; 2920; 2998; 3079; 3088; 3166; 3542; 3558; 3917; 3929; 4007; 4015; 4026; 4101
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	734
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	770
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	1966; 3249; 3532

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NheI	G!CTAGC	1	591
NlaIII	CATG!	23	304; 364; 609; 645; 651; 663; 741; 807; 887; 1098; 2179; 2319; 2391; 2482; 2623; 2968; 3154; 3185; 3211; 3567; 3951; 4671; 4722
NlaIV	GGN!NCC	22	467; 669; 729; 1040; 1120; 1323; 1371; 1379; 1386; 1904; 1925; 1937; 2128; 2289; 2361; 2750; 2785; 3633; 3712; 3757; 4600; 4639
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1581; 1896; 3488
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 994; 4560
Nli3877I	CYCGR!G	2	1341; 1384
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2538; 2974
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1010; 2503
NmeDI	RCCGGYNNNNNNNN!	4	1978; 3080; 3261; 3544
NmeDI	!NNNNNNNNNNNNNRCCGGY	4	1953; 3055; 3236; 3519
NmuCI	!GTSAC	4	894; 2038; 2869; 3175
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2851
NsiI	ATGCA!T	3	2321; 2393; 4724
NspI	RCATG!Y	5	645; 2319; 2391; 3154; 4671
NspV	TT!CGAA	2	1351; 3431
OliI	CACNN!NNGTG	2	607; 1310
PabI	GTA!C	10	220; 245; 300; 333; 384; 541; 659; 809; 1372; 3056
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2319; 2391; 3154
PaeR7I	C!TCGAG	1	1337
PagI	T!CATGA	2	2175; 3947
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	837; 3714; 3817
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2570
PciI	A!CATGT	1	4667
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	617; 3093; 3303
PcsI	WCGNNNN!NNNCGW	6	3043; 3120; 3363; 3437; 3830; 4348
PctI	GAATGCN!	1	1500
PctI	G!CATTC	1	1593
PdiI	GCC!GGC	3	1968; 3251; 3534
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	6	743; 3234; 3368; 3478; 3515; 4693
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2867
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	2	947; 3524
PhoI	GG!CC	28	84; 277; 601; 764; 1007; 1076; 1099; 1121; 1231; 1273; 1379; 1715; 1857; 2512; 2518; 2527; 2570; 2657; 2831; 3222; 3249; 3758; 3815; 3848; 4193; 4627; 4645; 4656
PinAI	A!CCGGT	0	
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3130
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2695; 2950
PleI	GAGTCNNNN!	3	901; 1800; 2232
PleI	!NNNNNGACTC	5	404; 1322; 1808; 3414; 4291
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1831
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3961
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3993
PpiI	!NNNNNNNGAACNNNNNCTC	1	1799
PpsI	GAGTCNNNN!	3	901; 1800; 2232
PpsI	!NNNNNGACTC	5	404; 1322; 1808; 3414; 4291
Ppu10I	A!TGCAT	3	2317; 2389; 4720
Ppu21I	YAC!GTR	3	340; 1865; 3053
PpuMI	RG!GWCCY	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PscI	A!CATGT	1	4667
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1532; 1737
Psp03I	GGWC!C	3	1206; 3268; 3713
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	16	88; 281; 788; 836; 932; 947; 1076; 2283; 2338; 2355; 3134; 3713; 3816; 4506; 4519; 4640
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1344
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	16	88; 281; 788; 836; 932; 947; 1076; 2283; 2338; 2355; 3134; 3713; 3816; 4506; 4519; 4640
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 669; 729; 1040; 1120; 1323; 1371; 1379; 1386; 1904; 1925; 1937; 2128; 2289; 2361; 2750; 2785; 3633; 3712; 3757; 4600; 4639
PspOMI	G!GGCCC	1	1377
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 2479; 3478
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2881
PspPI	G!GNCC	14	83; 276; 763; 1006; 1098; 1119; 1203; 1378; 1856; 3265; 3710; 3756; 3814; 3847
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNNNN!	3	2302; 2374; 3880
PspPRI	!NNNNNNNNNNNNNNNCTGRGG	4	858; 1286; 2215; 3410
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3850
PstI	CTGCA!G	1	1362
PstNI	CAGNNN!CTG	2	3850; 4258
PsuI	R!GATCY	12	585; 1153; 1333; 1384; 1393; 2920; 3166; 3558; 3917; 3929; 4015; 4026
PsyI	GACN!NNGTC	1	2867
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2247; 2855
RcaI	T!CATGA	2	2175; 3947
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3264
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNNNN!	1	1478
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	10	219; 244; 299; 332; 383; 540; 658; 808; 1371; 3055
RsaNI	G!TAC	10	218; 243; 298; 331; 382; 539; 657; 807; 1370; 3054
RseI	CAYNN!NNRTG	5	365; 607; 646; 1310; 3186
RsrII	CG!GWCCG	1	3265
Rsr2I	CG!GWCCG	1	3265
SacI	GAGCT!C	1	1344
SacII	CCGC!GG	1	1376
SalI	G!TCGAC	2	1090; 1363
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	617; 3093; 3303
SaqAI	T!TAA	16	7; 632; 1450; 1511; 1632; 1653; 1664; 1676; 1687; 1704; 1802; 2073; 3892; 3906; 3911; 3963

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SatI	GC!NGC	34	762; 813; 816; 957; 1074; 1255; 1526; 2045; 2067; 2081; 2519; 2658; 2710; 2721; 2811; 2816; 2853; 2894; 2981; 2984; 2987; 3223; 3319; 3360; 3374; 3488; 3827; 3842; 4053; 4259; 4262; 4327; 4470; 4625
Sau96I	G!GNCC	14	83; 276; 763; 1006; 1098; 1119; 1203; 1378; 1856; 3265; 3710; 3756; 3814; 3847
Sau3AI	!GATC	24	585; 977; 1127; 1153; 1333; 1384; 1393; 1406; 2586; 2590; 2609; 2920; 2998; 3079; 3088; 3166; 3542; 3558; 3917; 3929; 4007; 4015; 4026; 4101
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	902; 1801; 2233
SchI	!NNNNNGACTC	5	404; 1322; 1808; 3414; 4291
SciI	CTC!GAG	1	1339
ScrFI	CC!NGG	23	90; 283; 790; 838; 934; 949; 1078; 1187; 1381; 1382; 2285; 2340; 2357; 2753; 2913; 3136; 3526; 3715; 3818; 4290; 4508; 4521; 4642
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	4	2327; 2399; 2568; 4510
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	832; 2904; 3389
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	670; 697; 730; 1048; 1307; 1344; 1381; 1940; 2695; 2788; 2862; 3052; 3114; 3824; 4357
SelI	!CGCG	16	58; 1373; 1635; 1671; 2047; 2067; 2091; 2122; 2813; 3114; 3552; 3636; 3699; 3768; 4041; 4622
SetI	ASST!	65	125; 137; 178; 261; 308; 342; 447; 552; 568; 629; 656; 752; 802; 823; 974; 1109; 1127; 1178; 1246; 1265; 1289; 1314; 1323; 1344; 1350; 1439; 1460; 1469; 1481; 1530; 1697; 1812; 1824; 1867; 1904; 1954; 1977; 2101; 2249; 2344; 2537; 2650; 2778; 2857; 2868; 2940; 3011; 3055; 3315; 3461; 3505; 3836; 3867; 3926; 3969; 4112; 4133; 4232; 4369; 4384; 4403; 4415; 4459; 4505; 4556
SexAI	A!CCWGGT	1	2338
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	851; 1565; 2328; 2400; 3048; 3112; 3387
SfaNI	!NNNNNNNNNGATGC	6	357; 1172; 2707; 2962; 3178; 4570
SfcI	C!TRYAG	4	1358; 2084; 4211; 4402
SfiI	GGCCNNNN!NGGCC	1	2524
SfoI	GGC!GCC	1	2750
Sfr274I	C!TCGAG	1	1337
Sfr303I	CCG!GG	1	1376
SfuI	TT!CGAA	2	1351; 3431
SgeI	CNNGNNNNNNNNN!	188	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 618; 654; 672; 702; 726; 744; 759; 801; 816; 849; 867; 883; 896; 924; 945; 960; 987; 1021; 1042; 1055; 1075; 1089; 1107; 1120; 1137; 1152; 1170; 1191; 1225; 1260; 1286; 1304; 1337; 1351; 1386; 1403; 1456; 1485; 1527; 1610; 1648; 1684; 1768; 1790; 1822; 1859; 1877; 1896; 1911; 1953; 1970; 1987; 2022; 2036; 2053; 2075; 2099; 2123; 2188; 2202; 2240; 2256; 2296; 2309; 2328; 2351; 2368; 2381; 2400; 2430; 2451; 2468; 2491; 2526; 2553; 2584; 2606; 2632; 2654; 2673; 2701; 2737; 2756; 2779; 2793; 2813; 2826; 2840; 2859; 2873; 2892; 2924; 2938; 2951; 2977; 3008; 3021; 3038; 3055; 3069; 3086; 3104; 3119; 3147; 3163; 3182; 3204; 3220; 3243; 3262; 3287; 3306; 3326; 3353; 3377; 3410; 3429; 3457; 3471; 3537; 3561; 3576; 3599; 3620; 3637; 3685; 3712; 3726; 3755; 3779; 3812; 3829; 3849; 3862; 3875; 3933; 3960; 3979; 4009; 4034; 4054; 4068; 4093; 4111; 4148; 4186; 4215; 4243; 4257; 4277; 4292; 4313; 4327; 4346; 4364; 4380; 4420; 4440; 4467; 4485; 4506; 4519; 4532; 4549; 4573; 4596; 4628; 4653; 4680; 4702

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	164	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 628; 646; 676; 700; 718; 742; 775; 823; 841; 870; 898; 919; 961; 995; 1016; 1036; 1063; 1081; 1102; 1126; 1144; 1165; 1199; 1234; 1260; 1278; 1311; 1331; 1360; 1377; 1430; 1459; 1501; 1584; 1622; 1658; 1742; 1764; 1796; 1833; 1851; 1870; 1927; 1944; 1961; 1996; 2014; 2034; 2054; 2073; 2097; 2162; 2214; 2270; 2302; 2325; 2342; 2374; 2404; 2425; 2442; 2465; 2500; 2527; 2558; 2580; 2606; 2628; 2647; 2675; 2711; 2730; 2753; 2774; 2792; 2809; 2833; 2866; 2898; 2925; 2951; 2982; 3012; 3029; 3055; 3078; 3099; 3121; 3141; 3161; 3178; 3217; 3236; 3261; 3280; 3300; 3327; 3351; 3384; 3403; 3431; 3453; 3511; 3535; 3554; 3573; 3594; 3611; 3659; 3686; 3706; 3729; 3753; 3786; 3803; 3823; 3849; 3907; 3934; 3953; 3983; 4008; 4028; 4067; 4085; 4122; 4160; 4189; 4217; 4238; 4266; 4287; 4320; 4338; 4394; 4414; 4441; 4459; 4480; 4506; 4523; 4547; 4570; 4602; 4627; 4654; 4676; 4705
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1376
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	5	27; 1089; 1896; 3683; 4476
SimI	!GACCC	4	106; 3177; 3745; 3993
SinI	G!GWCC	3	1203; 3265; 3710
SlaI	C!TCGAG	1	1337
SmaI	CCC!GGG	1	1382
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 607; 646; 1310; 3186
SmlI	C!TYRAG	7	1177; 1337; 1343; 3140; 4022; 4299; 4561
SmoI	C!TYRAG	7	1177; 1337; 1343; 3140; 4022; 4299; 4561
SmuI	CCCGCNNNN!	10	93; 119; 286; 1071; 1173; 2071; 2426; 2447; 3643; 3775
SmuI	!NNNNNNGCGGG	7	1108; 1368; 2002; 2872; 3409; 3547; 3694
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2319; 2391; 3154
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1353; 1499; 1563; 1641; 1667; 1678; 2325; 2397; 2489; 3907
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2570
SsiI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 926; 1064; 1166; 1206; 1373; 2064; 2067; 2081; 2171; 2419; 2431; 2440; 2452; 2462; 2473; 2519; 2658; 2721; 3223; 3268; 3334; 3360; 3485; 3488; 3636; 3768; 4075; 4219; 4715
SsiI	G!CGG	28	370; 403; 528; 595; 761; 1073; 1115; 1375; 2009; 2036; 2124; 2234; 2815; 2879; 2980; 2983; 3263; 3318; 3416; 3554; 3701; 3841; 4084; 4329; 4450; 4469; 4596; 4624
SspI	AAT!ATT	2	1657; 2210
SspDI	G!GCGCC	1	2748
SspD5I	GGTGANNNNNNNN!	4	376; 999; 3820; 3936
SspD5I	!NNNNNNNNTCACC	3	887; 1865; 2926
SstI	GAGCT!C	1	1344
SstII	CCGC!GG	1	1376
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	932
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	20	92; 118; 285; 854; 1070; 1172; 1193; 1387; 1948; 2070; 2425; 2446; 2759; 3162; 3301; 3372; 3642; 3774; 4004; 4442
Sth132I	!NNNNNNNNCCGGG	21	15; 407; 470; 903; 1107; 1367; 1949; 2001; 2102; 2829; 2871; 2904; 3408; 3517; 3546; 3693; 3797; 3828; 4281; 4325; 4533
Sth302II	CC!GG	20	1188; 1326; 1382; 1392; 1968; 2655; 2732; 2754; 2782; 2913; 3003; 3070; 3251; 3526; 3534; 3626; 4100; 4290; 4316; 4463
StrI	C!TCGAG	1	1337
StsI	GGATGNNNNNNNNNN!	4	2617; 3074; 3099; 3553
StsI	!NNNNNNNNNNNNNNCATCC	5	683; 771; 828; 983; 2421
StuI	AGG!CCT	1	2570
StyI	C!CWWGG	6	360; 605; 2478; 2571; 3181; 3586

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyD4I	!CCNGG	23	88; 281; 788; 836; 932; 947; 1076; 1185; 1379; 1380; 2283; 2338; 2355; 2751; 2911; 3134; 3524; 3713; 3816; 4288; 4506; 4519; 4640
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 672; 1369; 1840; 3129; 3245; 3353; 3676; 4167; 4637; 4708
TaiI	ACGT!	15	125; 137; 178; 261; 342; 447; 974; 1812; 1824; 1867; 1977; 2868; 3055; 3836; 3969
TaqI	T!CGA	17	755; 782; 1091; 1338; 1351; 1364; 1898; 2589; 2862; 3018; 3042; 3078; 3240; 3431; 3476; 3731; 4569
TaqII	GACCGANNNNNNNNNN!	3	1769; 2786; 3454
TaqII	!NNNNNNNNNTCGGTC	1	3698
TaqII	CACCCANNNNNNNNNN!	2	745; 850
TaqII	!NNNNNNNNNTGGGTG	3	172; 2653; 3245
TasI	!AATT	11	18; 1353; 1499; 1563; 1641; 1667; 1678; 2325; 2397; 2489; 3907
TatI	W!GTACW	5	217; 297; 330; 381; 656
TauI	GCSG!C	17	764; 1076; 2069; 2083; 2521; 2660; 2723; 2818; 2983; 2986; 3225; 3321; 3362; 3490; 3844; 4472; 4627
TfiI	G!AWTC	6	743; 3234; 3368; 3478; 3515; 4693
TliI	C!TCGAG	1	1337
TruII	T!TAA	16	7; 632; 1450; 1511; 1632; 1653; 1664; 1676; 1687; 1704; 1802; 2073; 3892; 3906; 3911; 3963
Tru9I	T!TAA	16	7; 632; 1450; 1511; 1632; 1653; 1664; 1676; 1687; 1704; 1802; 2073; 3892; 3906; 3911; 3963
TscAI	CASTGNN!	5	1595; 2878; 3988; 4259; 4272
TseI	G!CWGC	17	812; 815; 956; 1254; 1525; 2044; 2709; 2810; 2852; 2893; 2986; 3373; 3826; 4052; 4258; 4261; 4326
TsoI	TARCCANNNNNNNNNN!	2	1721; 2068
TsoI	!NNNNNNNNNTGGYTA	3	781; 1526; 3278
Tsp45I	!GTSAC	4	894; 2038; 2869; 3175
Tsp509I	!AATT	11	18; 1353; 1499; 1563; 1641; 1667; 1678; 2325; 2397; 2489; 3907
TspDTI	ATGAANNNNNNNNNN!	5	664; 1030; 1507; 2808; 3512
TspDTI	!NNNNNNNNNTTCAT	6	26; 792; 813; 3226; 3682; 3889
TspEI	!AATT	11	18; 1353; 1499; 1563; 1641; 1667; 1678; 2325; 2397; 2489; 3907
TspGWI	ACGGANNNNNNNNNN!	1	3624
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1380
TspRI	CASTGNN!	5	1595; 2878; 3988; 4259; 4272
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2867
Tth111II	CAARCAANNNNNNNNNN!	1	4076
Tth111II	!NNNNNNNNNTGYTTG	3	3184; 4044; 4083
UnbI	!GGNCC	14	82; 275; 762; 1005; 1097; 1118; 1202; 1377; 1855; 3264; 3709; 3755; 3813; 3846
Van91I	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	693; 4353
VpaK11AI	!GGWCC	3	1202; 3264; 3709
VpaK11BI	G!GWCC	3	1203; 3265; 3710
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1353; 1563; 1667; 1678
XbaI	T!CTAGA	1	1396
XceI	RCATG!Y	5	645; 2319; 2391; 3154; 4671
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1337
XhoII	R!GATCY	12	585; 1153; 1333; 1384; 1393; 2920; 3166; 3558; 3917; 3929; 4015; 4026
XmaI	C!CCGGG	1	1380
XmaJI	C!CTAGG	2	2571; 3586

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmiI	GT!MKAC	3	1091; 1193; 1364
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	592; 1292; 1397; 1598; 2016; 2572; 3587; 3921; 4174
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2321; 2393; 4724