

pTurboRFP-PRL vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	934; 1139
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1222; 2178; 3967
AatI	AGG!CCT	1	1972
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	58
AccII	CG!CG	16	69; 509; 800; 1075; 1451; 1471; 1495; 1526; 2217; 2518; 2956; 3040; 3103; 3172; 3445; 4026
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2253
Acc36I	ACCTGCNNNN!	3	611; 2419; 2869
Acc36I	!NNNNNNNNGCAGGT	1	2038
Acc65I	G!GTACC	1	63
AccB1I	G!GYRCC	6	63; 145; 205; 1304; 2150; 2185
AccB7I	CCANNNN!NTGG	2	678; 690
AccBSI	CCG!CTC	2	1575; 2764
AccBSI	GAG!CGG	2	1411; 2818
AceIII	CAGCTCNNNNNNN!	1	1107
AceIII	!NNNNNNNNNNGAGCTG	1	91
AciI	C!CGC	29	67; 404; 542; 644; 798; 1466; 1469; 1483; 1573; 1821; 1833; 1842; 1854; 1864; 1875; 1921; 2060; 2123; 2625; 2670; 2736; 2762; 2887; 2890; 3038; 3170; 3477; 3621; 4117
AciI	G!CGG	26	69; 239; 509; 551; 593; 794; 1411; 1438; 1526; 1636; 2217; 2281; 2382; 2385; 2665; 2720; 2818; 2956; 3103; 3243; 3486; 3731; 3852; 3871; 3998; 4026
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	86; 2019; 2330; 2576; 2968; 3327; 3425; 3511
AclWI	!NNNNNGATCC	6	73; 626; 2395; 2939; 3326; 3423
AcoI	Y!GGCCR	6	749; 795; 2057; 2231; 2622; 2649
AcsI	R!AATY	4	47; 965; 1069; 1080
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	601; 2297; 2729
AcuI	!NNNNNNNNNNNNNCTTCAG	1	3527
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	3	2151; 2853; 2932
AdeI	CACNNN!GTG	2	678; 1267
AfaI	GT!AC	6	65; 136; 286; 538; 757; 2457
AfeI	AGC!GCT	1	14
AfiI	CCNNNNN!NNGG	21	202; 315; 481; 547; 678; 690; 1163; 1489; 1881; 2132; 2676; 2957; 2989; 3121; 3156; 3206; 3238; 3591; 3870; 4036; 4054
AfIII	C!TTAAG	1	1033
AfIII	A!CRYGT	1	4069
AgeI	A!CCGGT	1	84
AgsI	TTS!AA	7	168; 618; 1562; 1606; 1616; 2029; 3605
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	12	266; 314; 410; 1685; 1740; 1757; 2536; 3115; 3218; 3908; 3921; 4042
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	1725; 1797
AlfI	!NNNNNNNNNNNGCANNNNNNTGC	2	1691; 1763
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	2	492; 1233
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	460; 1201
AluI	AG!CT	18	36; 42; 105; 132; 278; 422; 585; 930; 1097; 1354; 1649; 1937; 2257; 2715; 3512; 3769; 3815; 3905
AluBI	AG!CT	18	36; 42; 105; 132; 278; 422; 585; 930; 1097; 1354; 1649; 1937; 2257; 2715; 3512; 3769; 3815; 3905
AlwI	GGATCNNNN!	8	86; 2019; 2330; 2576; 2968; 3327; 3425; 3511
AlwI	!NNNNNGATCC	6	73; 626; 2395; 2939; 3326; 3423
Alw21I	GWGCW!C	5	38; 175; 2264; 2454; 3759
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	5	712; 1575; 1993; 3012; 3140
Alw44I	G!TGCAC	2	171; 3755
AlwNI	CAGNNN!CTG	2	3252; 3660
Ama87I	C!YCGRG	2	31; 74
Aor13HI	T!CCGGA	0	
Aor51HI	AG!GCT	1	14
ApaI	GGGCC!C	1	75
ApaBI	GCANNNNN!TGC	3	1719; 1791; 3253
ApaLI	G!TGCAC	2	171; 3755
ApeKI	G!CWGC	16	290; 434; 732; 927; 1446; 2111; 2212; 2254; 2295; 2388; 2775; 3228; 3454; 3660; 3663; 3728
ApoI	R!AATTY	4	47; 965; 1069; 1080
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2666
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	2460; 3113; 3951
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2550
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	266
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	1979
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	2721
ArsI	GACNNNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	23	28; 79; 108; 222; 456; 632; 809; 1989; 1993; 2012; 2323; 2401; 2482; 2491; 2569; 2945; 2961; 3320; 3332; 3410; 3418; 3429; 3504
AsiGI	A!CCGGT	1	84
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2269
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	63
AspA2I	C!CTAGG	2	1973; 2988
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	21	15; 1417; 1425; 1451; 1473; 1482; 1495; 1526; 2145; 2153; 2217; 2254; 2520; 2780; 2956; 3042; 3445; 3554; 3728; 3828; 3895
AspS9I	G!GNCC	12	71; 72; 241; 484; 576; 681; 1258; 2667; 3112; 3158; 3216; 3249
AssI	AGT!ACT	1	757
AsuII	TT!CGAA	2	45; 2833
AsuC2I	CC!SGG	7	75; 76; 665; 2155; 2315; 2928; 3692
AsuHPI	GGTGANNNNNNNNN!	3	477; 3222; 3338
AsuHPI	!NNNNNNNTCACC	3	366; 1268; 2329
AsuNHI	G!CTAGC	0	
AvaI	C!YCGRG	2	31; 74
AvaII	G!GWCC	3	681; 2667; 3112
AviII	TGC!GCA	1	2253
AvrII	C!CTAGG	2	1973; 2988
AxyI	CC!TNAGG	3	350; 1631; 3263

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	8	75; 148; 175; 208; 785; 2097; 2190; 3759
BalI	TGG!CCA	2	751; 2233
BamHI	G!GATCC	1	78
BanI	G!GYRCC	6	63; 145; 205; 1304; 2150; 2185
BanII	GRGCY!C	5	38; 75; 1342; 2516; 3226
BanIII	AT!CGAT	1	1991
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	2	678; 690
BauI	C!ACGAG	3	736; 2869; 3896
BauI	C!TCGTG	2	586; 2743
BbeI	GGCGC!C	1	2154
Bbr7I	GAAGACNNNNNN!	1	397
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	392
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1721; 1793; 2556
BbvI	GCAGCNNNNNN!	8	302; 744; 939; 2224; 2266; 2787; 3240; 3740
BbvI	!NNNNNNNNNNNGCTGC	7	421; 1433; 2098; 2282; 2375; 3441; 3647
Bbv12I	GWGCW!C	5	38; 175; 2264; 2454; 3759
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	483; 1281; 1845; 2371; 2873
BccI	!NNNNNGATGG	5	567; 735; 1249; 2029; 2457
BceAI	ACGGCNNNNNNNNNN!	6	303; 447; 498; 564; 2577; 3064
BceAI	!NNNNNNNNNNNGCCGT	3	1292; 2110; 3569
Bcefl	ACGGCNNNNNNNNNN!	6	303; 447; 498; 564; 2577; 3064
Bcefl	!NNNNNNNNNNNGCCGT	3	1293; 2111; 3570
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	1580; 2370; 3871
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	107
BcnI	CC!SGG	7	75; 76; 665; 2155; 2315; 2928; 3692
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4004
BdaI	!NNNNNNNNNNTGANNNNNTCA	1	3970
BfaI	C!TAG	9	10; 770; 806; 1000; 1418; 1974; 2989; 3323; 3576
BfiI	ACTGGGNNNN!	2	787; 2100
BfiI	!NNNCCCAGT	1	1852
BfmI	C!TRYAG	4	52; 1486; 3613; 3804
BfoI	RGCGC!Y	5	16; 1418; 1426; 2154; 3829
BfrI	C!TTAAG	1	1033
BfuI	GTATCCNNNNN!	3	1580; 2370; 3871
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	611; 2419; 2869
BfuAI	!NNNNNNNGCAGGT	1	2038
BfuCI	!GATC	23	27; 78; 107; 221; 455; 631; 808; 1988; 1992; 2011; 2322; 2400; 2481; 2490; 2568; 2944; 2960; 3319; 3331; 3409; 3417; 3428; 3503
BglI	GCCNNNN!NGGC	2	560; 1926
BglII	A!GATCT	1	27
BisI	GC!NGC	36	240; 291; 435; 510; 552; 733; 795; 798; 928; 1447; 1469; 1483; 1921; 2060; 2112; 2123; 2213; 2218; 2255; 2296; 2383; 2386; 2389; 2625; 2721; 2762; 2776; 2890; 3229; 3244; 3455; 3661; 3664; 3729; 3872; 4027

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BlnI	C!CTAGG	2	1973; 2988
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	36	241; 292; 436; 511; 553; 734; 796; 799; 929; 1448; 1470; 1484; 1922; 2061; 2113; 2124; 2214; 2219; 2256; 2297; 2384; 2387; 2390; 2626; 2722; 2763; 2777; 2891; 3230; 3245; 3456; 3662; 3665; 3730; 3873; 4028
BmcAI	AGT!ACT	1	757
Bme18I	G!GWCC	3	681; 2667; 3112
Bme1390I	CC!NGG	19	75; 76; 268; 316; 412; 665; 1687; 1742; 1759; 2155; 2315; 2538; 2928; 3117; 3220; 3692; 3910; 3923; 4044
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	31; 74
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	12	72; 73; 242; 485; 577; 682; 1259; 2668; 3113; 3159; 3217; 3250
BmiI	GGN!NCC	18	65; 73; 80; 147; 207; 1306; 1327; 1339; 1530; 1691; 1763; 2152; 2187; 3035; 3114; 3159; 4002; 4041
BmrI	ACTGGGNNNNN!	2	787; 2100
BmrI	!NNNNCCCAGT	1	1852
BmrFI	CC!NGG	19	75; 76; 268; 316; 412; 665; 1687; 1742; 1759; 2155; 2315; 2538; 2928; 3117; 3220; 3692; 3910; 3923; 4044
BmsI	GCATCNNNNN!	8	329; 446; 967; 1730; 1802; 2450; 2514; 2789
BmsI	!NNNNNNNNNGATGC	8	482; 521; 650; 781; 2109; 2364; 2580; 3972
BmtI	GCTAG!C	0	
BmuI	ACTGGGNNNNN!	2	787; 2100
BmuI	!NNNNCCCAGT	1	1852
BoxI	GACNN!NNGTC	1	724
BpiI	GAAGACNN!	1	392
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	1940; 2839
BpI	!NNNNNNNNGAGNNNNNCTC	2	1908; 2807
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	2991
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	2934
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	45; 2833
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	392
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3445; 3984
BpuEI	!NNNNNNNNNNNNNCTCAAG	4	22; 640; 2527; 3686
BpuMI	CC!SGG	7	75; 76; 665; 2155; 2315; 2928; 3692
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	712; 3140
Bsa29I	AT!CGAT	1	1991
BsaAI	YAC!GTR	2	1267; 2455
BsaBI	GATNN!NNATC	2	813; 2010
BsaHI	GR!CGYC	3	2151; 2853; 2932
BsaJI	C!CNNGG	20	67; 74; 179; 314; 315; 410; 1685; 1757; 1880; 1915; 1924; 1973; 2314; 2583; 2988; 3115; 3116; 3218; 3219; 3909
BsaMI	GAATGCN!	1	902
BsaMI	G!CATTC	1	995
BsaWI	W!CCGGW	6	18; 84; 2182; 3026; 3716; 3863
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1231
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1201
BsbI	CAACACNNNNNNNNNNNNNNNN!	1	548
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1152; 3059
Bsc4I	CCNNNNN!NNGG	21	202; 315; 481; 547; 678; 690; 1163; 1489; 1881; 2132; 2676; 2957; 2989; 3121; 3156; 3206; 3238; 3591; 3870; 4036; 4054
BscAI	GCATCNNNN!	8	328; 445; 966; 1729; 1801; 2449; 2513; 2788
BscAI	!NNNNNNGATGC	8	485; 524; 653; 784; 2112; 2367; 2583; 3975
BseI	ACTGGN!	5	695; 782; 2095; 2296; 3542

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BseI	C!CAGT	4	1180; 1858; 3654; 3667
Bse8I	GATNN!NNATC	2	813; 2010
Bse21I	CC!TNAGG	3	350; 1631; 3263
Bse118I	R!CCGGY	5	84; 1368; 2470; 2651; 2934
BseAI	T!CCGGA	0	
BseBI	CC!WGG	12	268; 316; 412; 1687; 1742; 1759; 2538; 3117; 3220; 3910; 3923; 4044
BseCI	AT!CGAT	1	1991
BseDI	C!CNNGG	20	67; 74; 179; 314; 315; 410; 1685; 1757; 1880; 1915; 1924; 1973; 2314; 2583; 2988; 3115; 3116; 3218; 3219; 3909
Bse3DI	GCAATGNN!	1	2384
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2011; 2468; 2493; 2947
BseGI	!CATCC	5	175; 263; 320; 475; 1837
BseJI	GATNN!NNATC	2	813; 2010
BseLI	CCNNNNN!NNGG	21	202; 315; 481; 547; 678; 690; 1163; 1489; 1881; 2132; 2676; 2957; 2989; 3121; 3156; 3206; 3238; 3591; 3870; 4036; 4054
BseMI	GCAATGNN!	1	2384
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	38; 3277
BseMII	!NNNNNNNNCTGAG	7	341; 547; 1622; 1924; 2805; 3377; 3786
BseNI	ACTGGN!	5	695; 782; 2095; 2296; 3542
BseNI	C!CAGT	4	1180; 1858; 3654; 3667
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	1969
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	75; 148; 175; 208; 785; 2097; 2190; 3759
BseXI	GCAGC!NNNNNNNN!	8	302; 744; 939; 2224; 2266; 2787; 3240; 3740
BseXI	!NNNNNNNNNNNGCTGC	7	421; 1433; 2098; 2282; 2375; 3441; 3647
BseX3I	C!GGCCG	2	795; 2057
BseYI	C!CCAGC	3	1694; 1766; 3765
BseYI	G!CTGGG	2	512; 2655
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	589
Bsh1236I	CG!CG	16	69; 509; 800; 1075; 1451; 1471; 1495; 1526; 2217; 2518; 2956; 3040; 3103; 3172; 3445; 4026
Bsh1285I	CGRY!CG	4	89; 798; 2060; 3735
BshFI	GG!CC	27	73; 242; 485; 520; 554; 563; 577; 709; 751; 797; 1117; 1259; 1914; 1920; 1929; 1972; 2059; 2233; 2624; 2651; 3160; 3217; 3250; 3595; 4029; 4047; 4058
BshNI	G!GYRCC	6	63; 145; 205; 1304; 2150; 2185
BshTI	A!CCGGT	1	84
BshVI	AT!CGAT	1	1991
BsiEI	CGRY!CG	4	89; 798; 2060; 3735
BsiHKAI	GWGCW!C	5	38; 175; 2264; 2454; 3759
BsiHKCI	C!YCGRG	2	31; 74
BsiSI	C!CGG	20	19; 75; 85; 665; 1369; 2056; 2133; 2155; 2183; 2314; 2404; 2471; 2652; 2927; 2935; 3027; 3501; 3691; 3717; 3864
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	21	202; 315; 481; 547; 678; 690; 1163; 1489; 1881; 2132; 2676; 2957; 2989; 3121; 3156; 3206; 3238; 3591; 3870; 4036; 4054
BsIFI	GGGACNNNNNNNNNN!	3	2302; 2834; 2943
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1667; 1739; 1803; 3098
BsmI	GAATGCN!	1	902
BsmI	G!CATTC	1	995
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	5	712; 1575; 1993; 3012; 3140
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2302; 2834; 2943
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1667; 1739; 1803; 3098
BsnI	GG!CC	27	73; 242; 485; 520; 554; 563; 577; 709; 751; 797; 1117; 1259; 1914; 1920; 1929; 1972; 2059; 2233; 2624; 2651; 3160; 3217; 3250; 3595; 4029; 4047; 4058
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	712; 3140

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BsoBI	C!YCGRG	2	31; 74
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	2	1880; 2583
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	2954
Bsp24I	!NNNNNNCCANNNNNGTC	2	3375; 3553
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3407; 3585
Bsp24I	!NNNNNNNGACNNNNNTGG	1	2922
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	45; 2833
Bsp120I	G!GGCCC	1	71
Bsp143I	!GATC	23	27; 78; 107; 221; 455; 631; 808; 1988; 1992; 2011; 2322; 2400; 2481; 2490; 2568; 2944; 2960; 3319; 3331; 3409; 3417; 3428; 3503
Bsp1286I	GDGCH!C	14	38; 75; 148; 175; 208; 785; 1342; 2097; 2190; 2264; 2454; 2516; 3226; 3759
Bsp1407I	T!GTACA	1	134
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	29	67; 404; 542; 644; 798; 1466; 1469; 1483; 1573; 1821; 1833; 1842; 1854; 1864; 1875; 1921; 2060; 2123; 2625; 2670; 2736; 2762; 2887; 2890; 3038; 3170; 3477; 3621; 4117
BspACI	G!CGG	26	69; 239; 509; 551; 593; 794; 1411; 1438; 1526; 1636; 2217; 2281; 2382; 2385; 2665; 2720; 2818; 2956; 3103; 3243; 3486; 3731; 3852; 3871; 3998; 4026
BspCNI	CTCAGNNNNNNNN!	2	37; 3276
BspCNI	!NNNNNNNCTGAG	7	342; 548; 1623; 1925; 2806; 3378; 3787
BspDI	AT!CGAT	1	1991
BspD6I	GACTCNNNN!	5	30; 810; 1224; 2830; 3707
BspD6I	!NNNNNGAGTC	2	1187; 1619
BspEI	T!CCGGA	0	
BspFNI	CG!CG	16	69; 509; 800; 1075; 1451; 1471; 1495; 1526; 2217; 2518; 2956; 3040; 3103; 3172; 3445; 4026
BspHI	T!CATGA	2	1577; 3349
BspLI	GGN!NCC	18	65; 73; 80; 147; 207; 1306; 1327; 1339; 1530; 1691; 1763; 2152; 2187; 3035; 3114; 3159; 4002; 4041
BspMI	ACCTGCNNNN!	3	611; 2419; 2869
BspMI	!NNNNNNNGCAGGT	1	2038
BspOI	GCTAG!C	0	
BspPI	GGATCNNNN!	8	86; 2019; 2330; 2576; 2968; 3327; 3425; 3511
BspPI	!NNNNNGATCC	6	73; 626; 2395; 2939; 3326; 3423
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	2495; 2705
BspTI	C!TTAAG	1	1033
BspT104I	TT!CGAA	2	45; 2833
BspT107I	G!GYRCC	6	63; 145; 205; 1304; 2150; 2185
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	712; 3140
BsrI	ACTGGN!	5	695; 782; 2095; 2296; 3542
BsrI	C!CAGT	4	1180; 1858; 3654; 3667
BsrBI	CCG!CTC	2	1575; 2764
BsrBI	GAG!CGG	2	1411; 2818
BsrDI	GCAATGNN!	1	2384
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	84; 1368; 2470; 2651; 2934
BsrGI	T!GTACA	1	134
BsrSI	ACTGGN!	5	695; 782; 2095; 2296; 3542
BsrSI	C!CAGT	4	1180; 1858; 3654; 3667
BssAI	R!CCGGY	5	84; 1368; 2470; 2651; 2934
BssECI	C!CNNGG	20	67; 74; 179; 314; 315; 410; 1685; 1757; 1880; 1915; 1924; 1973; 2314; 2583; 2988; 3115; 3116; 3218; 3219; 3909
BssHII	G!CGCGC	0	
BssKI	!CCNGG	19	73; 74; 266; 314; 410; 663; 1685; 1740; 1757; 2153; 2313; 2536; 2926; 3115; 3218; 3690; 3908; 3921; 4042
BssMI	!GATC	23	27; 78; 107; 221; 455; 631; 808; 1988; 1992; 2011; 2322; 2400; 2481; 2490; 2568; 2944; 2960; 3319; 3331; 3409; 3417; 3428; 3503
BssNI	GR!CGYC	3	2151; 2853; 2932

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	736; 2869; 3896
BssSI	C!TCGTG	2	586; 2743
BssTII	C!CWWGG	4	1880; 1973; 2583; 2988
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	1618; 2495; 2705
Bst98I	C!TTAAG	1	1033
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	3	2151; 2853; 2932
BstAFI	C!TTAAG	1	1033
BstAPI	GCANNNN!NTGC	3	1718; 1790; 3252
BstAUI	T!GTACA	1	134
BstBI	TT!CGAA	2	45; 2833
Bst2BI	C!ACGAG	3	736; 2869; 3896
Bst2BI	C!TCGTG	2	586; 2743
BstBAI	YAC!GTR	2	1267; 2455
Bst4CI	ACN!GT	10	63; 150; 1242; 2531; 2647; 2755; 3078; 3569; 4039; 4110
BstC8I	GCN!NGC	29	71; 103; 193; 397; 1370; 1413; 1427; 1700; 1719; 1772; 1791; 2045; 2231; 2450; 2516; 2522; 2550; 2554; 2595; 2599; 2653; 2936; 3123; 3170; 3226; 3248; 3459; 4019; 4056
BstDEI	C!TNAG	10	24; 350; 556; 647; 1631; 1933; 2814; 3263; 3386; 3795
BstDSI	C!CRYGG	3	67; 1880; 2583
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2011; 2468; 2493; 2947
BstF5I	!CATCC	5	175; 263; 320; 475; 1837
BstFNI	CG!CG	16	69; 509; 800; 1075; 1451; 1471; 1495; 1526; 2217; 2518; 2956; 3040; 3103; 3172; 3445; 4026
BstH2I	RGCGC!Y	5	16; 1418; 1426; 2154; 3829
BstHHI	GCG!C	21	15; 1417; 1425; 1451; 1473; 1482; 1495; 1526; 2145; 2153; 2217; 2254; 2520; 2780; 2956; 3042; 3445; 3554; 3728; 3828; 3895
BstKTI	GAT!C	23	30; 81; 110; 224; 458; 634; 811; 1991; 1995; 2014; 2325; 2403; 2484; 2493; 2571; 2947; 2963; 3322; 3334; 3412; 3420; 3431; 3506
BstMAI	GTCTCN!	0	
BstMAI	!NNNNNGAGAC	5	712; 1575; 1993; 3012; 3140
BstMBI	!GATC	23	27; 78; 107; 221; 455; 631; 808; 1988; 1992; 2011; 2322; 2400; 2481; 2490; 2568; 2944; 2960; 3319; 3331; 3409; 3417; 3428; 3503
BstMCI	CGRY!CG	4	89; 798; 2060; 3735
BstMWI	GCNNNNN!NNGC	21	129; 560; 1378; 1408; 1435; 1477; 1718; 1790; 1841; 1920; 2142; 2226; 2249; 2388; 2511; 2594; 2861; 3048; 3252; 3451; 4023
BstNI	CC!WGG	12	268; 316; 412; 1687; 1742; 1759; 2538; 3117; 3220; 3910; 3923; 4044
BstNSI	RCATG!Y	5	123; 1721; 1793; 2556; 4073
BstOI	CC!WGG	12	268; 316; 412; 1687; 1742; 1759; 2538; 3117; 3220; 3910; 3923; 4044
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	724
BstSCI	!CCNGG	19	73; 74; 266; 314; 410; 663; 1685; 1740; 1757; 2153; 2313; 2536; 2926; 3115; 3218; 3690; 3908; 3921; 4042
BstSFI	C!TRYAG	4	52; 1486; 3613; 3804
BstSLI	GKGC M!C	8	75; 148; 175; 208; 785; 2097; 2190; 3759
BstSNI	TAC!GTA	0	
BstUI	CG!CG	16	69; 509; 800; 1075; 1451; 1471; 1495; 1526; 2217; 2518; 2956; 3040; 3103; 3172; 3445; 4026
Bst2UI	CC!WGG	12	268; 316; 412; 1687; 1742; 1759; 2538; 3117; 3220; 3910; 3923; 4044
BstV1I	GCAGC NNNNNNNN!	8	302; 744; 939; 2224; 2266; 2787; 3240; 3740
BstV1I	!NNNNNNNNNNNGCTGC	7	421; 1433; 2098; 2282; 2375; 3441; 3647
BstV2I	GAAGACNN!	1	392
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	27; 78; 631; 2322; 2568; 2960; 3319; 3331; 3417; 3428
BstYI	R!GATCY	10	27; 78; 631; 2322; 2568; 2960; 3319; 3331; 3417; 3428

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstZI	C!GGCCG	2	795; 2057
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1580; 2370; 3871
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	1991
Bsu36I	CC!TNAGG	3	350; 1631; 3263
BsuRI	GG!CC	27	73; 242; 485; 520; 554; 563; 577; 709; 751; 797; 1117; 1259; 1914; 1920; 1929; 1972; 2059; 2233; 2624; 2651; 3160; 3217; 3250; 3595; 4029; 4047; 4058
BsuTUI	AT!CGAT	1	1991
BtgI	C!CRYGG	3	67; 1880; 2583
BtgZI	GCGATGNNNNNNNNNN!	2	1268; 2603
BtgZI	!NNNNNNNNNNNNNNNNCATCGC	2	2422; 2766
BthCI	GCNG!C	36	242; 293; 437; 512; 554; 735; 797; 800; 930; 1449; 1471; 1485; 1923; 2062; 2114; 2125; 2215; 2220; 2257; 2298; 2385; 2388; 2391; 2627; 2723; 2764; 2778; 2892; 3231; 3246; 3457; 3663; 3666; 3731; 3874; 4029
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	606; 990
BtsCI	GGATGNN!	4	2011; 2468; 2493; 2947
BtsCI	!CATCC	5	175; 263; 320; 475; 1837
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	611; 2419; 2869
BveI	!NNNNNNNNGCAGGT	1	2038
Cac8I	GCN!NGC	29	71; 103; 193; 397; 1370; 1413; 1427; 1700; 1719; 1772; 1791; 2045; 2231; 2450; 2516; 2522; 2550; 2554; 2595; 2599; 2653; 2936; 3123; 3170; 3226; 3248; 3459; 4019; 4056
CaiI	CAGNNN!CTG	2	3252; 3660
CciI	T!CATGA	2	1577; 3349
CciNI	GC!GGCCGC	1	795
CdiI	CATC!G	4	2440; 2445; 2643; 2784
CdiI	C!GATG	2	1254; 2589
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4023
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	2	1812; 1854
CelII	GC!TNAGC	0	
CfoI	GCG!C	21	15; 1417; 1425; 1451; 1473; 1482; 1495; 1526; 2145; 2153; 2217; 2254; 2520; 2780; 2956; 3042; 3445; 3554; 3728; 3828; 3895
CfrI	Y!GGCCR	6	749; 795; 2057; 2231; 2622; 2649
Cfr9I	C!CCGGG	1	74
Cfr10I	R!CCGGY	5	84; 1368; 2470; 2651; 2934
Cfr13I	G!GNCC	12	71; 72; 241; 484; 576; 681; 1258; 2667; 3112; 3158; 3216; 3249
Cfr42I	CCGC!GG	1	70
ChaI	GATC!	23	31; 82; 111; 225; 459; 635; 812; 1992; 1996; 2015; 2326; 2404; 2485; 2494; 2572; 2948; 2964; 3323; 3335; 3413; 3421; 3432; 3507
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	187; 1968; 3408; 3508; 3586
CjeI	!NNNNNNNNNACNNNNNNNTGG	5	1635; 1730; 2922; 3472; 4027
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	5	1669; 1764; 2956; 3506; 4061
CjeI	!NNNNNNNNCCANNNNNNNGT	5	153; 1934; 3374; 3474; 3552
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	3408; 3586
CjePI	!NNNNNNNNGANNNNNNNTGG	2	2922; 3521
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	2	2955; 3554
CjePI	!NNNNNNNNCCANNNNNNNTC	2	3375; 3553
Clal	AT!CGAT	1	1991
CpoI	CG!GWCCG	1	2667
CseI	GACGCNNNNN!	2	2861; 2940
CseI	!NNNNNNNNNNGCGTC	3	1484; 3379; 3957
CsiI	A!CCWGGT	1	1740
CspI	CG!GWCCG	1	2667
Csp6I	G!TAC	6	64; 135; 285; 537; 756; 2456
Csp45I	TT!CGAA	2	45; 2833
CspAI	A!CCGGT	1	84

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	137; 728; 1431; 3040
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	1	593
CviAII	C!ATG	20	96; 120; 126; 138; 216; 282; 362; 1578; 1718; 1790; 1881; 2022; 2367; 2553; 2584; 2610; 2966; 3350; 4070; 4121
CviJI	RG!CY	93	36; 42; 73; 105; 132; 195; 242; 271; 278; 298; 356; 422; 434; 485; 512; 520; 554; 563; 569; 577; 585; 599; 668; 709; 745; 751; 797; 820; 930; 1097; 1117; 1259; 1340; 1354; 1368; 1649; 1690; 1762; 1885; 1914; 1920; 1929; 1937; 1960; 1972; 1978; 2059; 2076; 2084; 2111; 2136; 2220; 2229; 2233; 2257; 2295; 2371; 2388; 2407; 2470; 2514; 2524; 2541; 2624; 2651; 2655; 2692; 2715; 2731; 2911; 2938; 2999; 3121; 3160; 3217; 3224; 3231; 3250; 3261; 3512; 3541; 3584; 3595; 3660; 3739; 3764; 3769; 3815; 3905; 4003; 4029; 4047; 4058
CviKI-1	RG!CY	93	36; 42; 73; 105; 132; 195; 242; 271; 278; 298; 356; 422; 434; 485; 512; 520; 554; 563; 569; 577; 585; 599; 668; 709; 745; 751; 797; 820; 930; 1097; 1117; 1259; 1340; 1354; 1368; 1649; 1690; 1762; 1885; 1914; 1920; 1929; 1937; 1960; 1972; 1978; 2059; 2076; 2084; 2111; 2136; 2220; 2229; 2233; 2257; 2295; 2371; 2388; 2407; 2470; 2514; 2524; 2541; 2624; 2651; 2655; 2692; 2715; 2731; 2911; 2938; 2999; 3121; 3160; 3217; 3224; 3231; 3250; 3261; 3512; 3541; 3584; 3595; 3660; 3739; 3764; 3769; 3815; 3905; 4003; 4029; 4047; 4058
CviQI	G!TAC	6	64; 135; 285; 537; 756; 2456
DdeI	C!TNAG	10	24; 350; 556; 647; 1631; 1933; 2814; 3263; 3386; 3795
DinI	GGC!GCC	1	2152
DpnI	GA!TC	23	29; 80; 109; 223; 457; 633; 810; 1990; 1994; 2013; 2324; 2402; 2483; 2492; 2570; 2946; 2962; 3321; 3333; 3411; 3419; 3430; 3505
DpnII	!GATC	23	27; 78; 107; 221; 455; 631; 808; 1988; 1992; 2011; 2322; 2400; 2481; 2490; 2568; 2944; 2960; 3319; 3331; 3409; 3417; 3428; 3503
DraI	TTT!AAA	3	853; 3295; 3314
DraII	RG!GNCCY	1	3249
DraIII	CACNN!GTG	2	678; 1267
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	779; 3631
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	3	1222; 2178; 3967
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1222; 2178; 3967
EaeI	Y!GGCCR	6	749; 795; 2057; 2231; 2622; 2649
EagI	C!GGCCG	2	795; 2057
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	1618; 2495; 2705
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	1618; 2495; 2705
EciI	GGCGGANNNNNNNNNNNN!	4	1651; 2680; 3867; 4013
EciI	!NNNNNNNNNTCCGCC	3	1822; 1843; 1864
Ecl136II	GAG!CTC	1	36
EclXI	C!GGCCG	2	795; 2057
Eco24I	GRGCY!C	5	38; 75; 1342; 2516; 3226
Eco31I	GGTTCN!	0	
Eco31I	!NNNNGAGACC	2	712; 3140
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	681; 2667; 3112
Eco47III	AGC!GCT	1	14
Eco52I	C!GGCCG	2	795; 2057
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	601; 2297; 2729
Eco57I	!NNNNNNNNNNNNNNNNCTCAG	1	3527
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	350; 1631; 3263

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco88I	C!YCGRG	2	31; 74
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	4	1880; 1973; 2583; 2988
Eco147I	AGG!CCT	1	1972
EcoHI	!CCSGG	7	73; 74; 663; 2153; 2313; 2926; 3690
EcoICRI	GAG!CTC	1	36
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	4	601; 2297; 2729; 2991
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	2934; 3527
EcoNI	CCTNN!NNNAGG	0	
EcoO65I	G!GTNACC	0	
EcoO109I	RG!GNCCY	1	3249
EcoRI	G!AATTC	1	47
EcoRII	!CCWGG	12	266; 314; 410; 1685; 1740; 1757; 2536; 3115; 3218; 3908; 3921; 4042
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	4	1880; 1973; 2583; 2988
EcoT22I	ATGCA!T	3	1723; 1795; 4126
EcoT38I	GRGCY!C	5	38; 75; 1342; 2516; 3226
Eco53kl	GAG!CTC	1	36
EgeI	GGC!GCC	1	2152
EheI	GGC!GCC	1	2152
ErhI	C!CWWGG	4	1880; 1973; 2583; 2988
EsaBC3I	TC!GA	17	33; 46; 59; 234; 261; 729; 1301; 1992; 2265; 2421; 2445; 2481; 2643; 2834; 2879; 3134; 3972
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	20	99; 123; 129; 141; 219; 285; 365; 1581; 1721; 1793; 1884; 2025; 2370; 2556; 2587; 2613; 2969; 3353; 4073; 4124
Fail	YA!TR	46	97; 121; 127; 139; 217; 283; 363; 381; 627; 813; 823; 889; 934; 1139; 1567; 1579; 1710; 1719; 1782; 1791; 1815; 1882; 1906; 2023; 2087; 2368; 2393; 2554; 2585; 2611; 2683; 2899; 2967; 3045; 3097; 3258; 3275; 3277; 3279; 3351; 3629; 3818; 3934; 4007; 4071; 4122
FalI	AAGNNNNNCTNNNNNNNNNNNN!	2	360; 2491
FalI	!NNNNNNNNNAAGNNNNNCTT	2	328; 2459
FaqI	GGGACNNNNNNNNNN!	3	2302; 2834; 2943
FaqI	!NNNNNNNNNNNNNGTCCC	4	1667; 1739; 1803; 3098
FatI	!CATG	20	95; 119; 125; 137; 215; 281; 361; 1577; 1717; 1789; 1880; 2021; 2366; 2552; 2583; 2609; 2965; 3349; 4069; 4120
FauI	CCCGCNNNN!	7	549; 651; 1473; 1828; 1849; 3045; 3177
FauI	!NNNNNNNGCGGG	7	62; 586; 1404; 2274; 2811; 2949; 3096
FauNDI	CA!TATG	0	
FbaI	T!GATCA	1	107
FblI	GT!MKAC	1	58
FmuI	GGNC!C	12	74; 75; 244; 487; 579; 684; 1261; 2670; 3115; 3161; 3219; 3252
Fnu4HI	GC!NGC	36	240; 291; 435; 510; 552; 733; 795; 798; 928; 1447; 1469; 1483; 1921; 2060; 2112; 2123; 2213; 2218; 2255; 2296; 2383; 2386; 2389; 2625; 2721; 2762; 2776; 2890; 3229; 3244; 3455; 3661; 3664; 3729; 3872; 4027
FokI	GGATGNNNNNNNN!	4	2018; 2475; 2500; 2954
FokI	!NNNNNNNNNNNNNCATCC	5	162; 250; 307; 462; 1824
FriOI	GRGCY!C	5	38; 75; 1342; 2516; 3226
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2253
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	10; 770; 806; 1000; 1418; 1974; 2989; 3323; 3576

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	136	32; 80; 95; 162; 192; 209; 223; 256; 270; 288; 312; 327; 357; 390; 417; 432; 487; 534; 553; 568; 583; 616; 636; 656; 677; 697; 723; 765; 781; 811; 834; 873; 887; 1028; 1123; 1147; 1170; 1193; 1211; 1233; 1254; 1273; 1292; 1321; 1342; 1356; 1382; 1470; 1496; 1545; 1586; 1604; 1643; 1659; 1697; 1754; 1769; 1826; 1846; 1860; 1877; 1891; 1928; 1943; 1986; 2069; 2136; 2167; 2187; 2202; 2247; 2261; 2327; 2341; 2360; 2376; 2417; 2437; 2484; 2534; 2550; 2570; 2595; 2615; 2638; 2665; 2683; 2709; 2749; 2775; 2799; 2855; 2869; 2897; 2940; 2961; 2996; 3040; 3128; 3152; 3174; 3194; 3210; 3231; 3245; 3264; 3348; 3368; 3396; 3411; 3445; 3487; 3514; 3529; 3574; 3598; 3612; 3634; 3660; 3680; 3704; 3730; 3778; 3797; 3816; 3842; 3877; 3922; 3952; 3966; 4017; 4031; 4056; 4072; 4093; 4122
FspEI	!NNNNNNNNNNNNNNGG	112	4; 46; 70; 97; 124; 166; 187; 211; 253; 272; 301; 337; 374; 397; 416; 446; 467; 494; 533; 559; 578; 650; 676; 727; 763; 822; 922; 991; 1021; 1099; 1148; 1170; 1198; 1234; 1279; 1308; 1344; 1363; 1391; 1411; 1474; 1497; 1605; 1637; 1655; 1684; 1727; 1756; 1867; 1896; 1939; 1960; 1988; 2021; 2041; 2066; 2093; 2118; 2140; 2168; 2194; 2215; 2266; 2287; 2305; 2353; 2389; 2445; 2470; 2494; 2523; 2546; 2570; 2596; 2618; 2637; 2662; 2702; 2738; 2803; 2888; 2912; 2941; 2975; 2996; 3016; 3061; 3088; 3107; 3140; 3192; 3223; 3250; 3302; 3400; 3471; 3516; 3577; 3642; 3676; 3702; 3720; 3756; 3826; 3849; 3871; 3895; 3928; 3976; 4011; 4029; 4086
Fsp4HI	GC!NGC	36	240; 291; 435; 510; 552; 733; 795; 798; 928; 1447; 1469; 1483; 1921; 2060; 2112; 2123; 2213; 2218; 2255; 2296; 2383; 2386; 2389; 2625; 2721; 2762; 2776; 2890; 3229; 3244; 3455; 3661; 3664; 3729; 3872; 4027
GdiII	C!GGCCR	2	795; 2057
GdiII	Y!GGCCG	4	795; 2057; 2622; 2649
GlaI	GC!GC	21	14; 1416; 1424; 1450; 1472; 1481; 1494; 1525; 2144; 2152; 2216; 2253; 2519; 2779; 2955; 3041; 3444; 3553; 3727; 3827; 3894
GluI	GC!NGC	36	240; 291; 435; 510; 552; 733; 795; 798; 928; 1447; 1469; 1483; 1921; 2060; 2112; 2123; 2213; 2218; 2255; 2296; 2383; 2386; 2389; 2625; 2721; 2762; 2776; 2890; 3229; 3244; 3455; 3661; 3664; 3729; 3872; 4027
GsaI	CCCAG!C	3	1698; 1770; 3769
GsaI	GCTGG!G	2	516; 2659
GsuI	CTGGAGNNNNNNNNNNNNNN!	1	2991
GsuI	!NNNNNNNNNNNNNCTCCAG	1	2934
HaeI	WGG!CCW	8	520; 563; 751; 1972; 2233; 3595; 4047; 4058
HaeII	RGCG!Y	5	16; 1418; 1426; 2154; 3829
HaeIII	GG!CC	27	73; 242; 485; 520; 554; 563; 577; 709; 751; 797; 1117; 1259; 1914; 1920; 1929; 1972; 2059; 2233; 2624; 2651; 3160; 3217; 3250; 3595; 4029; 4047; 4058
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	826; 2347
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	792; 2313
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	825; 2346
HaeIV	!NNNNNNNGAYNNNNNRTC	2	794; 2315
HapII	C!CGG	20	19; 75; 85; 665; 1369; 2056; 2133; 2155; 2183; 2314; 2404; 2471; 2652; 2927; 2935; 3027; 3501; 3691; 3717; 3864
HgaI	GACGCNNNNN!	2	2861; 2940
HgaI	!NNNNNNNNNNGCGTC	3	1484; 3379; 3957
HhaI	GCG!C	21	15; 1417; 1425; 1451; 1473; 1482; 1495; 1526; 2145; 2153; 2217; 2254; 2520; 2780; 2956; 3042; 3445; 3554; 3728; 3828; 3895
Hin1I	GR!CGYC	3	2151; 2853; 2932
Hin1II	CATG!	20	99; 123; 129; 141; 219; 285; 365; 1581; 1721; 1793; 1884; 2025; 2370; 2556; 2587; 2613; 2969; 3353; 4073; 4124
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	825; 2346
Hin4I	!NNNNNNNNGABNNNNNRTC	3	793; 2314; 2344
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	825; 2346; 2376
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	793; 2314
Hin6I	G!CGC	21	13; 1415; 1423; 1449; 1471; 1480; 1493; 1524; 2143; 2151; 2215; 2252; 2518; 2778; 2954; 3040; 3443; 3552; 3726; 3826; 3893
HinP1I	G!CGC	21	13; 1415; 1423; 1449; 1471; 1480; 1493; 1524; 2143; 2151; 2215; 2252; 2518; 2778; 2954; 3040; 3443; 3552; 3726; 3826; 3893

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HincII	GTY!RAC	2	59; 914
HindII	GTY!RAC	2	59; 914
HindIII	A!AGCTT	1	40
HinfI	G!ANTC	14	22; 371; 698; 802; 1194; 1216; 1626; 2636; 2770; 2822; 2880; 2917; 3699; 4095
HpaI	GTT!AAC	1	914
HpaII	C!CGG	20	19; 75; 85; 665; 1369; 2056; 2133; 2155; 2183; 2314; 2404; 2471; 2652; 2927; 2935; 3027; 3501; 3691; 3717; 3864
HphI	GGTGANNNNNNN!	3	477; 3222; 3338
HphI	!NNNNNNNTCACC	3	366; 1268; 2329
Hpy8I	GTN!NAC	10	59; 153; 173; 468; 681; 914; 1198; 1215; 1270; 3757
Hpy99I	CGWCG!	9	63; 730; 2241; 2269; 2563; 2578; 2855; 3240; 3973
Hpy166II	GTN!NAC	10	59; 153; 173; 468; 681; 914; 1198; 1215; 1270; 3757
Hpy188I	TCN!GA	12	27; 180; 1325; 1934; 2118; 2462; 2815; 2916; 3395; 3529; 3882; 3960
Hpy188III	TC!NNGA	25	31; 426; 453; 618; 657; 806; 1578; 1630; 1943; 1996; 2169; 2485; 2494; 2577; 2633; 2677; 2767; 2800; 2869; 3350; 3424; 3507; 3605; 3703; 3837
HpyAV	CCTTCNNNNNN!	7	261; 309; 354; 624; 2796; 2903; 3582
HpyAV	!NNNNNGAAGG	8	181; 1384; 2279; 3008; 3024; 3207; 3524; 3834
HpyCH4III	ACN!GT	10	63; 150; 1242; 2531; 2647; 2755; 3078; 3569; 4039; 4110
HpyCH4IV	A!CGT	10	449; 725; 1211; 1223; 1266; 1376; 2267; 2454; 3235; 3368
HpyCH4V	TG!CA	22	54; 123; 173; 437; 495; 606; 900; 927; 995; 1712; 1721; 1784; 1793; 1908; 1984; 2043; 2202; 2377; 2391; 3461; 3757; 4124
HpyF3I	C!TNAG	10	24; 350; 556; 647; 1631; 1933; 2814; 3263; 3386; 3795
HpyF10VI	GCNNNNN!NNGC	21	129; 560; 1378; 1408; 1435; 1477; 1718; 1790; 1841; 1920; 2142; 2226; 2249; 2388; 2511; 2594; 2861; 3048; 3252; 3451; 4023
Hsp92I	GR!CGYC	3	2151; 2853; 2932
Hsp92II	CATG!	20	99; 123; 129; 141; 219; 285; 365; 1581; 1721; 1793; 1884; 2025; 2370; 2556; 2587; 2613; 2969; 3353; 4073; 4124
HspAI	G!CGC	21	13; 1415; 1423; 1449; 1471; 1480; 1493; 1524; 2143; 2151; 2215; 2252; 2518; 2778; 2954; 3040; 3443; 3552; 3726; 3826; 3893
KasI	G!GCGCC	1	2150
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	67
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	70
Ksp22I	T!GATCA	1	107
KspAI	GTT!AAC	1	914
Kzo9I	!GATC	23	27; 78; 107; 221; 455; 631; 808; 1988; 1992; 2011; 2322; 2400; 2481; 2490; 2568; 2944; 2960; 3319; 3331; 3409; 3417; 3428; 3503
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	2495; 2705
LpnI	RGC!GCV	5	14; 1416; 1424; 2152; 3827
LpnPI	CCDGNNNNNNNNN!	57	32; 88; 223; 280; 328; 362; 424; 439; 500; 568; 583; 616; 678; 888; 1193; 1382; 1605; 1643; 1659; 1699; 1754; 1771; 1871; 1956; 2069; 2146; 2168; 2191; 2327; 2341; 2360; 2417; 2484; 2534; 2550; 2607; 2665; 2874; 2940; 2964; 3040; 3129; 3232; 3265; 3496; 3514; 3660; 3680; 3704; 3730; 3779; 3877; 3922; 3952; 4031; 4056; 4093
LpnPI	!NNNNNNNNNNNNNCHGG	50	4; 60; 253; 301; 397; 498; 650; 676; 763; 1234; 1354; 1411; 1474; 1672; 1684; 1744; 1756; 1988; 2033; 2076; 2118; 2140; 2168; 2215; 2277; 2299; 2389; 2456; 2479; 2523; 2618; 2637; 2662; 2811; 2912; 2955; 3012; 3102; 3205; 3232; 3250; 3486; 3523; 3676; 3702; 3842; 3860; 3895; 3976; 4029
Lsp1109I	GCAGCNNNNNNN!	8	302; 744; 939; 2224; 2266; 2787; 3240; 3740
Lsp1109I	!NNNNNNNNNNNGCTGC	7	421; 1433; 2098; 2282; 2375; 3441; 3647
LweI	GCATCNNNNN!	8	329; 446; 967; 1730; 1802; 2450; 2514; 2789
LweI	!NNNNNNNNNGATGC	8	482; 521; 650; 781; 2109; 2364; 2580; 3972
MabI	A!CCWGGT	1	1740
MaeI	C!TAG	9	10; 770; 806; 1000; 1418; 1974; 2989; 3323; 3576
MaeII	A!CGT	10	449; 725; 1211; 1223; 1266; 1376; 2267; 2454; 3235; 3368
MaeIII	!GTNAC	9	939; 1440; 1452; 2271; 2577; 3267; 3533; 3649; 3712

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaiI	GA!TC	23	29; 80; 109; 223; 457; 633; 810; 1990; 1994; 2013; 2324; 2402; 2483; 2492; 2570; 2946; 2962; 3321; 3333; 3411; 3419; 3430; 3505
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1575; 2764
MbiI	GAG!CGG	2	1411; 2818
MboI	!GATC	23	27; 78; 107; 221; 455; 631; 808; 1988; 1992; 2011; 2322; 2400; 2481; 2490; 2568; 2944; 2960; 3319; 3331; 3409; 3417; 3428; 3503
MboII	GAAGANNNNNNNNN!	8	231; 397; 510; 1407; 1635; 2512; 2722; 3341
MboII	!NNNNNNNTCTTC	4	2802; 2969; 3169; 3412
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	901
MflI	R!GATCY	10	27; 78; 631; 2322; 2568; 2960; 3319; 3331; 3417; 3428
MhlI	GDGCH!C	14	38; 75; 148; 175; 208; 785; 1342; 2097; 2190; 2264; 2454; 2516; 3226; 3759
MlsI	TGG!CCA	2	751; 2233
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	751; 2233
MlyI	GAGTCNNNNNN!	2	1203; 1635
MlyI	!NNNNNGACTC	5	16; 796; 1210; 2816; 3693
Mly113I	GG!CGCC	1	2151
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	503; 1244
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	3676; 3860
MnII	CCTCNNNNNNNN!	10	254; 664; 775; 870; 1934; 2752; 2958; 3272; 3642; 3966
MnII	!NNNNNGAGG	20	135; 174; 195; 228; 345; 510; 553; 699; 830; 1295; 1626; 1904; 1947; 1962; 2002; 2066; 2202; 2559; 2989; 3892
Mph1103I	ATGCA!T	3	1723; 1795; 4126
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1368; 2651; 2934
MroXI	GAANN!NN TTC	0	
MscI	TGG!CCA	2	751; 2233
MseI	T!TAA	15	335; 852; 913; 1034; 1055; 1066; 1078; 1089; 1106; 1204; 1475; 3294; 3308; 3313; 3365
MslI	CAYNN!NNRTG	3	124; 529; 2588
MspI	C!CGG	20	19; 75; 85; 665; 1369; 2056; 2133; 2155; 2183; 2314; 2404; 2471; 2652; 2927; 2935; 3027; 3501; 3691; 3717; 3864
Msp20I	TGG!CCA	2	751; 2233
MspA1I	CMG!CKG	6	69; 544; 1649; 2257; 3486; 3731
MspCI	C!TTAAG	1	1033
MspJI	CNNRNNNNNNNNNN!	213	22; 36; 49; 80; 97; 114; 132; 150; 180; 198; 213; 228; 246; 279; 294; 322; 337; 361; 374; 390; 408; 422; 438; 465; 486; 499; 518; 533; 553; 567; 582; 598; 615; 630; 647; 667; 690; 703; 722; 741; 764; 781; 796; 811; 824; 839; 858; 875; 888; 929; 943; 956; 974; 1012; 1027; 1045; 1086; 1110; 1130; 1148; 1169; 1192; 1224; 1239; 1261; 1279; 1292; 1313; 1330; 1343; 1356; 1372; 1385; 1415; 1430; 1455; 1473; 1486; 1501; 1525; 1539; 1563; 1588; 1604; 1642; 1658; 1697; 1711; 1725; 1753; 1769; 1783; 1797; 1826; 1839; 1860; 1869; 1891; 1921; 1937; 1955; 1985; 2008; 2032; 2056; 2075; 2103; 2129; 2145; 2158; 2181; 2195; 2215; 2228; 2242; 2261; 2275; 2288; 2304; 2319; 2332; 2348; 2363; 2379; 2404; 2423; 2439; 2452; 2465; 2483; 2497; 2511; 2527; 2549; 2565; 2584; 2606; 2622; 2645; 2664; 2678; 2694; 2708; 2728; 2744; 2757; 2779; 2812; 2826; 2846; 2859; 2873; 2927; 2940; 2963; 2976; 2995; 3012; 3039; 3075; 3108; 3127; 3152; 3173; 3200; 3213; 3230; 3244; 3259; 3275; 3335; 3360; 3376; 3398; 3411; 3425; 3456; 3470; 3495; 3513; 3528; 3541; 3560; 3573; 3588; 3617; 3636; 3654; 3679; 3694; 3713; 3729; 3748; 3766; 3782; 3796; 3815; 3842; 3865; 3887; 3906; 3921; 3934; 3951; 3971; 3998; 4011; 4030; 4055; 4078; 4092; 4105; 4122

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	173	5; 25; 54; 71; 88; 106; 124; 154; 178; 196; 220; 239; 261; 301; 322; 348; 368; 397; 439; 473; 492; 514; 541; 565; 589; 622; 643; 662; 688; 710; 733; 756; 779; 803; 832; 861; 903; 986; 1021; 1048; 1071; 1100; 1144; 1166; 1198; 1234; 1251; 1272; 1309; 1329; 1346; 1363; 1398; 1416; 1434; 1451; 1475; 1497; 1524; 1552; 1578; 1616; 1637; 1654; 1672; 1695; 1716; 1744; 1767; 1788; 1806; 1827; 1844; 1867; 1891; 1911; 1929; 1951; 1982; 2004; 2030; 2049; 2066; 2094; 2113; 2132; 2150; 2168; 2189; 2211; 2235; 2268; 2288; 2306; 2327; 2353; 2380; 2397; 2414; 2431; 2457; 2479; 2501; 2519; 2539; 2558; 2580; 2618; 2638; 2662; 2682; 2702; 2729; 2753; 2786; 2805; 2833; 2855; 2884; 2912; 2937; 2956; 2975; 2996; 3013; 3030; 3061; 3088; 3108; 3131; 3151; 3188; 3205; 3224; 3250; 3270; 3309; 3336; 3355; 3373; 3410; 3428; 3469; 3487; 3513; 3530; 3562; 3591; 3619; 3640; 3663; 3682; 3703; 3721; 3738; 3756; 3782; 3803; 3823; 3843; 3861; 3882; 3908; 3925; 3944; 3963; 3992; 4011; 4029; 4048; 4066; 4084; 4107
MspR9I	CC!NGG	19	75; 76; 268; 316; 412; 665; 1687; 1742; 1759; 2155; 2315; 2538; 2928; 3117; 3220; 3692; 3910; 3923; 4044
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	901
MvaI	CC!WGG	12	268; 316; 412; 1687; 1742; 1759; 2538; 3117; 3220; 3910; 3923; 4044
Mva1269I	GAATGCN!	1	902
Mva1269I	G!CATTC	1	995
MvnI	CG!CG	16	69; 509; 800; 1075; 1451; 1471; 1495; 1526; 2217; 2518; 2956; 3040; 3103; 3172; 3445; 4026
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	21	129; 560; 1378; 1408; 1435; 1477; 1718; 1790; 1841; 1920; 2142; 2226; 2249; 2388; 2511; 2594; 2861; 3048; 3252; 3451; 4023
NaeI	GCC!GGC	3	1370; 2653; 2936
NarI	GG!CGCC	1	2151
NciI	CC!SGG	7	75; 76; 665; 2155; 2315; 2928; 3692
NcoI	C!CATGG	2	1880; 2583
NdeI	CA!TATG	0	
NdeII	!GATC	23	27; 78; 107; 221; 455; 631; 808; 1988; 1992; 2011; 2322; 2400; 2481; 2490; 2568; 2944; 2960; 3319; 3331; 3409; 3417; 3428; 3503
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	212
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	248
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	3	1368; 2651; 2934
NheI	G!CTAGC	0	
NlaIII	CATG!	20	99; 123; 129; 141; 219; 285; 365; 1581; 1721; 1793; 1884; 2025; 2370; 2556; 2587; 2613; 2969; 3353; 4073; 4124
NlaIV	GGN!NCC	18	65; 73; 80; 147; 207; 1306; 1327; 1339; 1530; 1691; 1763; 2152; 2187; 3035; 3114; 3159; 4002; 4041
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	983; 1298; 2890
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	472; 3962
Nli3877I	CYCGR!G	2	35; 78
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	1940; 2376
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	1905
NmeDI	RCCGGYNNNNNNN!	5	96; 1380; 2482; 2663; 2946
NmeDI	!NNNNNNNNNNNNRCCGGY	5	71; 1355; 2457; 2638; 2921
NmuCI	!GTSAC	3	1440; 2271; 2577
NotI	GC!GGCCGC	1	795
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2253
NsiI	ATGCA!T	3	1723; 1795; 4126
NspI	RCATG!Y	5	123; 1721; 1793; 2556; 4073
NspV	TT!CGAA	2	45; 2833
OliI	CACNN!NNGTG	0	
PabI	GTA!C	6	66; 137; 287; 539; 758; 2458
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1721; 1793; 2556
PaeR7I	C!TCGAG	1	31

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PagI	T!CATGA	2	1577; 3349
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	315; 3116; 3219
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	1972
PciI	A!CATGT	1	4069
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	2495; 2705
PcsI	WCGNNNN!NNNCGW	7	734; 2445; 2522; 2765; 2839; 3232; 3750
PctI	GAATGCN!	1	902
PctI	G!CATTC	1	995
PdiI	GCC!GGC	3	1370; 2653; 2936
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	371; 698; 2636; 2770; 2880; 2917; 4095
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2269
PfIMI	CCANNNN!NTGG	2	678; 690
PfoI	T!CCNGGA	1	2926
PhoI	GG!CC	27	73; 242; 485; 520; 554; 563; 577; 709; 751; 797; 1117; 1259; 1914; 1920; 1929; 1972; 2059; 2233; 2624; 2651; 3160; 3217; 3250; 3595; 4029; 4047; 4058
PinAI	A!CCGGT	1	84
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	2532
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2097; 2352
PleI	GAGTCNNNN!	2	1202; 1634
PleI	!NNNNNGACTC	5	16; 796; 1210; 2816; 3693
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1233
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3363
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3395
PpiI	!NNNNNNNGAACNNNNNCTC	1	1201
PpsI	GAGTCNNNN!	2	1202; 1634
PpsI	!NNNNNGACTC	5	16; 796; 1210; 2816; 3693
Ppu10I	A!TGCAT	3	1719; 1791; 4122
Ppu21I	YAC!GTR	2	1267; 2455
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4069
PshAI	GACNN!NNGTC	1	724
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	2	934; 1139
Psp03I	GGWC!C	3	684; 2670; 3115
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	12	266; 314; 410; 1685; 1740; 1757; 2536; 3115; 3218; 3908; 3921; 4042
Psp1406I	AA!CGTT	0	
Psp124BI	GAGTC!C	1	38
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	12	266; 314; 410; 1685; 1740; 1757; 2536; 3115; 3218; 3908; 3921; 4042
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	18	65; 73; 80; 147; 207; 1306; 1327; 1339; 1530; 1691; 1763; 2152; 2187; 3035; 3114; 3159; 4002; 4041
PspOMI	G!GGCCC	1	71
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	2	1881; 2880
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2283
PspPI	G!GNCC	12	71; 72; 241; 484; 576; 681; 1258; 2667; 3112; 3158; 3216; 3249
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNNNN!	3	1704; 1776; 3282
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	4	336; 764; 1617; 2812
PspXI	VC!TCGAGB	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3252
PstI	CTGCA!G	1	56
PstNI	CAGNNN!CTG	2	3252; 3660
PsuI	R!GATCY	10	27; 78; 631; 2322; 2568; 2960; 3319; 3331; 3417; 3428
PsyI	GACN!NNGTC	1	2269
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1649; 2257
RcaI	T!CATGA	2	1577; 3349
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	2666
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	880
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	65; 136; 286; 538; 757; 2457
RsaNI	G!TAC	6	64; 135; 285; 537; 756; 2456
RseI	CAYNN!NNRTG	3	124; 529; 2588
RsrII	CG!GWCCG	1	2667
Rsr2I	CG!GWCCG	1	2667
SacI	GAGCT!C	1	38
SacII	CCGC!GG	1	70
SalI	G!TCGAC	1	57
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	2495; 2705
SaqAI	T!TAA	15	335; 852; 913; 1034; 1055; 1066; 1078; 1089; 1106; 1204; 1475; 3294; 3308; 3313; 3365
SatI	GC!NGC	36	240; 291; 435; 510; 552; 733; 795; 798; 928; 1447; 1469; 1483; 1921; 2060; 2112; 2123; 2213; 2218; 2255; 2296; 2383; 2386; 2389; 2625; 2721; 2762; 2776; 2890; 3229; 3244; 3455; 3661; 3664; 3729; 3872; 4027
Sau96I	G!GNCC	12	71; 72; 241; 484; 576; 681; 1258; 2667; 3112; 3158; 3216; 3249
Sau3AI	!GATC	23	27; 78; 107; 221; 455; 631; 808; 1988; 1992; 2011; 2322; 2400; 2481; 2490; 2568; 2944; 2960; 3319; 3331; 3409; 3417; 3428; 3503
Sbfl	CCTGCA!GG	0	
ScaI	AGT!ACT	1	757
SchI	GAGTCNNNNN!	2	1203; 1635
SchI	!NNNNNGACTC	5	16; 796; 1210; 2816; 3693
SciI	CTC!GAG	1	33
ScrFI	CC!NGG	19	75; 76; 268; 316; 412; 665; 1687; 1742; 1759; 2155; 2315; 2538; 2928; 3117; 3220; 3692; 3910; 3923; 4044
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNN!	5	522; 1729; 1801; 1970; 3912
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	2	2306; 2791
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	14	38; 75; 148; 175; 208; 785; 1342; 2097; 2190; 2264; 2454; 2516; 3226; 3759
SelI	!CGCG	16	67; 507; 798; 1073; 1449; 1469; 1493; 1524; 2215; 2516; 2954; 3038; 3101; 3170; 3443; 4024

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SetI	ASST!	54	38; 44; 107; 134; 230; 280; 424; 452; 587; 605; 656; 724; 728; 767; 841; 862; 871; 883; 932; 1099; 1214; 1226; 1269; 1306; 1356; 1379; 1503; 1651; 1746; 1939; 2052; 2180; 2259; 2270; 2342; 2413; 2457; 2717; 2863; 2907; 3238; 3269; 3328; 3371; 3514; 3535; 3634; 3771; 3786; 3805; 3817; 3861; 3907; 3958
SexAI	A!CCWGGT	1	1740
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	329; 446; 967; 1730; 1802; 2450; 2514; 2789
SfaNI	!NNNNNNNNNGATGC	8	482; 521; 650; 781; 2109; 2364; 2580; 3972
SfcI	C!TRYAG	4	52; 1486; 3613; 3804
SfiI	GGCCNNNN!NGGCC	2	560; 1926
SfoI	GGC!GCC	1	2152
Sfr274I	C!TCGAG	1	31
Sfr303I	CCGC!GG	1	70
SfuI	TT!CGAA	2	45; 2833
SgeI	CNNGNNNNNNNNN!	171	6; 22; 43; 80; 97; 114; 132; 150; 180; 204; 222; 237; 279; 294; 327; 361; 374; 402; 423; 438; 465; 499; 518; 540; 553; 567; 582; 598; 615; 630; 648; 669; 690; 703; 741; 765; 782; 811; 858; 887; 929; 1012; 1086; 1170; 1192; 1224; 1261; 1279; 1298; 1313; 1355; 1372; 1389; 1424; 1438; 1455; 1477; 1501; 1525; 1590; 1604; 1642; 1658; 1698; 1711; 1730; 1753; 1770; 1783; 1802; 1832; 1853; 1870; 1893; 1928; 1955; 1986; 2008; 2034; 2056; 2075; 2103; 2139; 2158; 2181; 2195; 2215; 2228; 2242; 2261; 2275; 2294; 2326; 2340; 2353; 2379; 2410; 2423; 2440; 2457; 2471; 2488; 2506; 2521; 2549; 2565; 2584; 2606; 2622; 2645; 2664; 2689; 2708; 2728; 2755; 2779; 2812; 2831; 2859; 2873; 2939; 2963; 2978; 3001; 3022; 3039; 3087; 3114; 3128; 3157; 3181; 3214; 3231; 3251; 3264; 3277; 3335; 3362; 3381; 3411; 3436; 3456; 3470; 3495; 3513; 3550; 3588; 3617; 3645; 3659; 3679; 3694; 3715; 3729; 3748; 3766; 3782; 3822; 3842; 3869; 3887; 3908; 3921; 3934; 3951; 3975; 3998; 4030; 4055; 4082; 4104
SgeI	!NNNNNNNNNNNNNCNNG	148	5; 25; 54; 71; 88; 106; 124; 154; 178; 196; 220; 253; 301; 335; 376; 397; 439; 473; 492; 514; 541; 565; 589; 622; 643; 664; 688; 715; 739; 756; 785; 832; 861; 903; 986; 1060; 1144; 1166; 1198; 1235; 1253; 1272; 1329; 1346; 1363; 1398; 1416; 1436; 1456; 1475; 1499; 1564; 1616; 1672; 1704; 1727; 1744; 1776; 1806; 1827; 1844; 1867; 1902; 1929; 1960; 1982; 2008; 2030; 2049; 2077; 2113; 2132; 2155; 2176; 2194; 2211; 2235; 2268; 2300; 2327; 2353; 2384; 2414; 2431; 2457; 2480; 2501; 2523; 2543; 2563; 2580; 2619; 2638; 2663; 2682; 2702; 2729; 2753; 2786; 2805; 2833; 2855; 2913; 2937; 2956; 2975; 2996; 3013; 3061; 3088; 3108; 3131; 3155; 3188; 3205; 3225; 3251; 3309; 3336; 3355; 3385; 3410; 3430; 3469; 3487; 3524; 3562; 3591; 3619; 3640; 3668; 3689; 3722; 3740; 3796; 3816; 3843; 3861; 3882; 3908; 3925; 3949; 3972; 4004; 4029; 4056; 4078; 4107
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	70
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1298; 3085; 3878
SimI	!GACCC	3	2579; 3147; 3395
SinI	G!GWCC	3	681; 2667; 3112
SlaI	C!TCGAG	1	31
SmaI	CCC!GGG	1	76
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	3	124; 529; 2588
SmlI	C!TYRAG	8	31; 37; 655; 1033; 2542; 3424; 3701; 3963
SmoI	C!TYRAG	8	31; 37; 655; 1033; 2542; 3424; 3701; 3963
SmuI	CCCGCNNNN!	7	549; 651; 1473; 1828; 1849; 3045; 3177
SmuI	!NNNNNNGCGGG	7	62; 586; 1404; 2274; 2811; 2949; 3096
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1721; 1793; 2556
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	47; 901; 965; 1043; 1069; 1080; 1727; 1799; 1891; 3309

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	1972
SsiI	C!CGC	29	67; 404; 542; 644; 798; 1466; 1469; 1483; 1573; 1821; 1833; 1842; 1854; 1864; 1875; 1921; 2060; 2123; 2625; 2670; 2736; 2762; 2887; 2890; 3038; 3170; 3477; 3621; 4117
SsiI	G!CGG	26	69; 239; 509; 551; 593; 794; 1411; 1438; 1526; 1636; 2217; 2281; 2382; 2385; 2665; 2720; 2818; 2956; 3103; 3243; 3486; 3731; 3852; 3871; 3998; 4026
SspI	AAT!ATT	2	1059; 1612
SspDI	G!GCGCC	1	2150
SspD5I	GGTGANNNNNNNN!	3	477; 3222; 3338
SspD5I	!NNNNNNNNNTCACC	3	365; 1267; 2328
SstI	GAGCT!C	1	38
SstII	CCGC!GG	1	70
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	410
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	17	81; 332; 548; 650; 671; 1350; 1472; 1827; 1848; 2161; 2564; 2703; 2774; 3044; 3176; 3406; 3844
Sth132I	!NNNNNNNNNCGGG	19	61; 381; 453; 585; 1351; 1403; 1504; 2231; 2273; 2306; 2810; 2919; 2948; 3095; 3199; 3230; 3683; 3727; 3935
Sth302II	CC!GG	20	20; 76; 86; 666; 1370; 2057; 2134; 2156; 2184; 2315; 2405; 2472; 2653; 2928; 2936; 3028; 3502; 3692; 3718; 3865
StrI	C!TCGAG	1	31
StsI	GGATGNNNNNNNNNN!	4	2019; 2476; 2501; 2955
StsI	!NNNNNNNNNNNNNNNCATCC	5	161; 249; 306; 461; 1823
StuI	AGG!CCT	1	1972
StyI	C!CWWGG	4	1880; 1973; 2583; 2988
StyD4I	!CCNGG	19	73; 74; 266; 314; 410; 663; 1685; 1740; 1757; 2153; 2313; 2536; 2926; 3115; 3218; 3690; 3908; 3921; 4042
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	10	63; 150; 1242; 2531; 2647; 2755; 3078; 3569; 4039; 4110
TaiI	ACGT!	10	452; 728; 1214; 1226; 1269; 1379; 2270; 2457; 3238; 3371
TaqI	T!CGA	17	32; 45; 58; 233; 260; 728; 1300; 1991; 2264; 2420; 2444; 2480; 2642; 2833; 2878; 3133; 3971
TaqII	GACCGANNNNNNNNNNN!	3	1171; 2188; 2856
TaqII	!NNNNNNNNNTCGGTC	1	3100
TaqII	CACCCANNNNNNNNNNN!	2	223; 328
TaqII	!NNNNNNNNNTGGGTG	2	2055; 2647
TasI	!AATT	10	47; 901; 965; 1043; 1069; 1080; 1727; 1799; 1891; 3309
TatI	W!GTACW	2	134; 755
TauI	GCSG!C	20	242; 512; 554; 797; 800; 1471; 1485; 1923; 2062; 2125; 2220; 2385; 2388; 2627; 2723; 2764; 2892; 3246; 3874; 4029
TfiI	G!AWTC	7	371; 698; 2636; 2770; 2880; 2917; 4095
TliI	C!TCGAG	1	31
Tru1I	T!TAA	15	335; 852; 913; 1034; 1055; 1066; 1078; 1089; 1106; 1204; 1475; 3294; 3308; 3313; 3365
Tru9I	T!TAA	15	335; 852; 913; 1034; 1055; 1066; 1078; 1089; 1106; 1204; 1475; 3294; 3308; 3313; 3365
TscAI	CASTGNN!	6	613; 997; 2280; 3390; 3661; 3674
TseI	G!CWGC	16	290; 434; 732; 927; 1446; 2111; 2212; 2254; 2295; 2388; 2775; 3228; 3454; 3660; 3663; 3728
TsoI	TARCCANNNNNNNNNNN!	2	1123; 1470
TsoI	!NNNNNNNNNTGGYTA	3	259; 928; 2680
Tsp45I	!GTSAC	3	1440; 2271; 2577
Tsp509I	!AATT	10	47; 901; 965; 1043; 1069; 1080; 1727; 1799; 1891; 3309
TspDTI	ATGAANNNNNNNNNNN!	5	142; 232; 909; 2210; 2914
TspDTI	!NNNNNNNNNTTCAT	5	270; 291; 2628; 3084; 3291
TspEI	!AATT	10	47; 901; 965; 1043; 1069; 1080; 1727; 1799; 1891; 3309
TspGWI	ACGGANNNNNNNNNNN!	1	3026
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	74
TspRI	CASTGNN!	6	613; 997; 2280; 3390; 3661; 3674
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	!NNNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2269
Tth111II	CAARCANNNNNNNNNN!	1	3478
Tth111II	!NNNNNNNNNTGYTTG	3	2586; 3446; 3485
UnbI	!GGNCC	12	70; 71; 240; 483; 575; 680; 1257; 2666; 3111; 3157; 3215; 3248
Van9II	CCANNNN!NTGG	2	678; 690
Vha464I	C!TTAAG	1	1033
VneI	G!TGCAC	2	171; 3755
VpaK11AI	!GGWCC	3	680; 2666; 3111
VpaK11BI	G!GWCC	3	681; 2667; 3112
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	47; 965; 1069; 1080
XbaI	T!CTAGA	1	805
XceI	RCATG!Y	5	123; 1721; 1793; 2556; 4073
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	31
XhoII	R!GATCY	10	27; 78; 631; 2322; 2568; 2960; 3319; 3331; 3417; 3428
XmaI	C!CCGGG	1	74
XmaJI	C!CTAGG	2	1973; 2988
XmiI	GT!MKAC	1	58
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	10; 770; 806; 1000; 1418; 1974; 2989; 3323; 3576
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	1	757
Zsp2I	ATGCA!T	3	1723; 1795; 4126