

## pTurboRFP-PRL-dest1 vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1082; 1287
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1370; 2326; 4115
AatI	AGG!CCT	1	2120
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	58
AccII	CG!CG	16	69; 509; 948; 1223; 1599; 1619; 1643; 1674; 2365; 2666; 3104; 3188; 3251; 3320; 3593; 4174
AccIII	T!CCGGA	1	796
Acc16I	TGC!GCA	1	2401
Acc36I	ACCTGCNNNN!	3	611; 2567; 3017
Acc36I	!NNNNNNNNGCAGGT	1	2186
Acc65I	G!GTACC	1	63
AccB1I	G!GYRCC	6	63; 145; 205; 1452; 2298; 2333
AccB7I	CCANNNN!NTGG	2	678; 690
AccBSI	CCG!CTC	2	1723; 2912
AccBSI	GAG!CGG	3	887; 1559; 2966
AceIII	CAGCTCNNNNNNN!	1	1255
AceIII	!NNNNNNNNNNGAGCTG	1	91
AciI	C!CGC	30	67; 404; 542; 644; 829; 946; 1614; 1617; 1631; 1721; 1969; 1981; 1990; 2002; 2012; 2023; 2069; 2208; 2271; 2773; 2818; 2884; 2910; 3035; 3038; 3186; 3318; 3625; 3769; 4265
AciI	G!CGG	28	69; 239; 509; 551; 593; 835; 841; 887; 1559; 1586; 1674; 1784; 2365; 2429; 2530; 2533; 2813; 2868; 2966; 3104; 3251; 3391; 3634; 3879; 4000; 4019; 4146; 4174
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	10	86; 934; 947; 2167; 2478; 2724; 3116; 3475; 3573; 3659
AclWI	!NNNNNGATCC	6	73; 626; 2543; 3087; 3474; 3571
AcoI	Y!GGCCR	6	749; 943; 2205; 2379; 2770; 2797
AcsI	R!AATY	4	47; 1113; 1217; 1228
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	601; 2445; 2877
AcuI	!NNNNNNNNNNNNNCTTCAG	1	3675
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	3	2299; 3001; 3080
AdeI	CACNNN!GTG	2	678; 1415
AfaI	GT!AC	6	65; 136; 286; 538; 757; 2605
AfeI	AGC!GCT	1	14
AfiI	CCNNNNN!NNGG	22	202; 315; 481; 547; 678; 690; 834; 1311; 1637; 2029; 2280; 2824; 3105; 3137; 3269; 3304; 3354; 3386; 3739; 4018; 4184; 4202
AflII	C!TTAAG	1	1181
AflIII	A!CRYGT	1	4217
AgeI	A!CCGGT	1	84
AgsI	TTS!AA	7	168; 618; 1710; 1754; 1764; 2177; 3753
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	13	266; 314; 410; 878; 1833; 1888; 1905; 2684; 3263; 3366; 4056; 4069; 4190
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	0	
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	1873; 1945
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	1839; 1911
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	2	492; 1381
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	460; 1349
AluI	AG!CT	18	36; 42; 105; 132; 278; 422; 585; 1078; 1245; 1502; 1797; 2085; 2405; 2863; 3660; 3917; 3963; 4053
AluBI	AG!CT	18	36; 42; 105; 132; 278; 422; 585; 1078; 1245; 1502; 1797; 2085; 2405; 2863; 3660; 3917; 3963; 4053
AlwI	GGATCNNNN!	10	86; 934; 947; 2167; 2478; 2724; 3116; 3475; 3573; 3659
AlwI	!NNNNNGATCC	6	73; 626; 2543; 3087; 3474; 3571
Alw21I	GWGCW!C	5	38; 175; 2412; 2602; 3907
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	5	712; 1723; 2141; 3160; 3288
Alw44I	G!TGCAC	2	171; 3903
AlwNI	CAGNN!CTG	2	3400; 3808
Ama87I	C!YCGRG	2	31; 74
Aor13HI	T!CCGGA	1	796
Aor51HI	AG!GCT	1	14
ApaI	GGGCC!C	1	75
ApaBI	GCANNNNN!TGC	4	914; 1867; 1939; 3401
ApaLI	G!TGCAC	2	171; 3903
ApeKI	G!CWGC	18	290; 434; 732; 861; 907; 1075; 1594; 2259; 2360; 2402; 2443; 2536; 2923; 3376; 3602; 3808; 3811; 3876
ApoI	R!AATTY	4	47; 1113; 1217; 1228
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2814
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	2608; 3261; 4099
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2698
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	266
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2127
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	2869
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	26	28; 79; 108; 222; 456; 632; 806; 927; 940; 957; 2137; 2141; 2160; 2471; 2549; 2630; 2639; 2717; 3093; 3109; 3468; 3480; 3558; 3566; 3577; 3652
AsiGI	A!CCGGT	1	84
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2417
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	63
AspA2I	C!CTAGG	2	2121; 3136
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	22	15; 846; 1565; 1573; 1599; 1621; 1630; 1643; 1674; 2293; 2301; 2365; 2402; 2668; 2928; 3104; 3190; 3593; 3702; 3876; 3976; 4043
AspS9I	G!GNCC	13	71; 72; 241; 484; 576; 681; 894; 1406; 2815; 3260; 3306; 3364; 3397
AssI	AGT!ACT	1	757
AsuII	TT!CGAA	2	45; 2981
AsuC2I	CC!SGG	7	75; 76; 665; 2303; 2463; 3076; 3840
AsuHPI	GGTGANNNNNNNN!	3	477; 3370; 3486
AsuHPI	!NNNNNNNTCACC	4	366; 892; 1416; 2477
AsuNHI	G!CTAGC	0	
AvaI	C!YCGRG	2	31; 74
AvaII	G!GWCC	4	681; 894; 2815; 3260
AviII	TGC!GCA	1	2401
AvrII	C!CTAGG	2	2121; 3136

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AxyI	CC!TNAGG	3	350; 1779; 3411
BaeI	ACNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	9	75; 148; 175; 208; 785; 879; 2245; 2338; 3907
BalI	TGG!CCA	2	751; 2381
BamHI	G!GATCC	1	78
BanI	G!GYRCC	6	63; 145; 205; 1452; 2298; 2333
BanII	GRGCY!C	5	38; 75; 1490; 2664; 3374
BanIII	AT!CGAT	1	2139
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	2	678; 690
BauI	C!ACGAG	3	736; 3017; 4044
BauI	C!TCGTG	2	586; 2891
BbeI	GGCGC!C	1	2302
Bbr7I	GAAGACNNNNNNNN!	1	397
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	392
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1869; 1941; 2704
BbvI	GCAGCNNNNNNNN!	9	302; 744; 919; 1087; 2372; 2414; 2935; 3388; 3888
BbvI	!NNNNNNNNNNNGCTGC	8	421; 848; 1581; 2246; 2430; 2523; 3589; 3795
Bbv12I	GWGCW!C	5	38; 175; 2412; 2602; 3907
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	483; 1429; 1993; 2519; 3021
BccI	!NNNNNGATGG	7	567; 735; 847; 885; 1397; 2177; 2605
BceAI	ACGGCNNNNNNNNNNNN!	6	303; 447; 498; 564; 2725; 3212
BceAI	!NNNNNNNNNNNNNGCCGT	3	1440; 2258; 3717
Bcefl	ACGGCNNNNNNNNNNNN!	6	303; 447; 498; 564; 2725; 3212
Bcefl	!NNNNNNNNNNNNNGCCGT	3	1441; 2259; 3718
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	1728; 2518; 4019
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	107
BcnI	CC!SGG	7	75; 76; 665; 2303; 2463; 3076; 3840
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNN!	1	4152
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	1	4118
BfaI	C!TAG	10	10; 770; 923; 954; 1148; 1566; 2122; 3137; 3471; 3724
BfiI	ACTGGGNNNNN!	2	787; 2248
BfiI	!NNNCCCAGT	1	2000
BfmI	C!TRYAG	5	52; 905; 1634; 3761; 3952
BfoI	RGCGC!Y	5	16; 1566; 1574; 2302; 3977
BfrI	C!TTAAG	1	1181
BfuI	GTATCCNNNNNN!	3	1728; 2518; 4019
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	611; 2567; 3017
BfuAI	!NNNNNNNNNGCAGGT	1	2186
BfuCI	!GATC	26	27; 78; 107; 221; 455; 631; 805; 926; 939; 956; 2136; 2140; 2159; 2470; 2548; 2629; 2638; 2716; 3092; 3108; 3467; 3479; 3557; 3565; 3576; 3651
BglI	GCCNNNN!NGGC	2	560; 2074
BglII	A!GATCT	2	27; 805

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BisI	GC!NGC	38	240; 291; 435; 510; 552; 733; 842; 862; 908; 946; 1076; 1595; 1617; 1631; 2069; 2208; 2260; 2271; 2361; 2366; 2403; 2444; 2531; 2534; 2537; 2773; 2869; 2910; 2924; 3038; 3377; 3392; 3603; 3809; 3812; 3877; 4020; 4175
BlnI	C!CTAGG	2	2121; 3136
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	38	241; 292; 436; 511; 553; 734; 843; 863; 909; 947; 1077; 1596; 1618; 1632; 2070; 2209; 2261; 2272; 2362; 2367; 2404; 2445; 2532; 2535; 2538; 2774; 2870; 2911; 2925; 3039; 3378; 3393; 3604; 3810; 3813; 3878; 4021; 4176
BmcAI	AGT!ACT	1	757
Bme18I	G!GWCC	4	681; 894; 2815; 3260
Bme1390I	CC!NGG	20	75; 76; 268; 316; 412; 665; 880; 1835; 1890; 1907; 2303; 2463; 2686; 3076; 3265; 3368; 3840; 4058; 4071; 4192
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	31; 74
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	13	72; 73; 242; 485; 577; 682; 895; 1407; 2816; 3261; 3307; 3365; 3398
BmiI	GGN!NCC	18	65; 73; 80; 147; 207; 1454; 1475; 1487; 1678; 1839; 1911; 2300; 2335; 3183; 3262; 3307; 4150; 4189
BmrI	ACTGGGNNNNN!	2	787; 2248
BmrI	!NNNNCCCAGT	1	2000
BmrFI	CC!NGG	20	75; 76; 268; 316; 412; 665; 880; 1835; 1890; 1907; 2303; 2463; 2686; 3076; 3265; 3368; 3840; 4058; 4071; 4192
BmsI	GCATCNNNNN!	8	329; 446; 1115; 1878; 1950; 2598; 2662; 2937
BmsI	!NNNNNNNNNGATGC	7	482; 521; 650; 2257; 2512; 2728; 4120
BmtI	GCTAG!C	0	
BmuI	ACTGGGNNNNN!	2	787; 2248
BmuI	!NNNNCCCAGT	1	2000
BoxI	GACNN!NNGTC	1	724
BpiI	GAAGACNN!	1	392
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2088; 2987
BpI	!NNNNNNNNGAGNNNNNNCTC	2	2056; 2955
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3139
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	1	3082
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	45; 2981
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	392
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3593; 4132
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	4	22; 640; 2675; 3834
BpuMI	CC!SGG	7	75; 76; 665; 2303; 2463; 3076; 3840
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	712; 3288
Bsa29I	AT!CGAT	1	2139
BsaAI	YAC!GTR	2	1415; 2603
BsaBI	GATNN!NNATC	2	961; 2158
BsaHI	GR!CGYC	3	2299; 3001; 3080
BsaJI	C!CNNGG	22	67; 74; 179; 314; 315; 410; 819; 878; 1833; 1905; 2028; 2063; 2072; 2121; 2462; 2731; 3136; 3263; 3264; 3366; 3367; 4057
BsaMI	GAATGCN!	1	1050
BsaMI	G!CATTC	1	1143
BsaWI	W!CCGGW	7	18; 84; 796; 2330; 3174; 3864; 4011
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1379
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	1349
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	1	548
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1300; 3207

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Bsc4I	CCNNNNN!NNGG	22	202; 315; 481; 547; 678; 690; 834; 1311; 1637; 2029; 2280; 2824; 3105; 3137; 3269; 3304; 3354; 3386; 3739; 4018; 4184; 4202
BscAI	GCATCNNNN!	8	328; 445; 1114; 1877; 1949; 2597; 2661; 2936
BscAI	!NNNNNNGATGC	7	485; 524; 653; 2260; 2515; 2731; 4123
BseI	ACTGGN!	5	695; 782; 2243; 2444; 3690
BseI	C!CAGT	4	1328; 2006; 3802; 3815
Bse8I	GATNN!NNATC	2	961; 2158
Bse21I	CC!TNAGG	3	350; 1779; 3411
Bse118I	R!CCGGY	6	84; 831; 1516; 2618; 2799; 3082
BseAI	T!CCGGA	1	796
BseBI	CC!WGG	13	268; 316; 412; 880; 1835; 1890; 1907; 2686; 3265; 3368; 4058; 4071; 4192
BseCI	AT!CGAT	1	2139
BseDI	C!CNNGG	22	67; 74; 179; 314; 315; 410; 819; 878; 1833; 1905; 2028; 2063; 2072; 2121; 2462; 2731; 3136; 3263; 3264; 3366; 3367; 4057
Bse3DI	GCAATGNN!	1	2532
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	6	855; 896; 2159; 2616; 2641; 3095
BseGI	!CATCC	5	175; 263; 320; 475; 1985
BseJ	GATNN!NNATC	2	961; 2158
BseLI	CCNNNNN!NNGG	22	202; 315; 481; 547; 678; 690; 834; 1311; 1637; 2029; 2280; 2824; 3105; 3137; 3269; 3304; 3354; 3386; 3739; 4018; 4184; 4202
BseMI	GCAATGNN!	1	2532
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	38; 816; 3425
BseMII	!NNNNNNNNNCTGAG	7	341; 547; 1770; 2072; 2953; 3525; 3934
BseNI	ACTGGN!	5	695; 782; 2243; 2444; 3690
BseNI	C!CAGT	4	1328; 2006; 3802; 3815
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2117
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGCMI	9	75; 148; 175; 208; 785; 879; 2245; 2338; 3907
BseXI	GCAGCNNNNNNNN!	9	302; 744; 919; 1087; 2372; 2414; 2935; 3388; 3888
BseXI	!NNNNNNNNNNNGCTGC	8	421; 848; 1581; 2246; 2430; 2523; 3589; 3795
BseX3I	C!GGCCG	2	943; 2205
BseYI	C!CCAGC	3	1842; 1914; 3913
BseYI	G!CTGGG	2	512; 2803
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNCTGCAC	1	589
Bsh1236I	CG!CG	16	69; 509; 948; 1223; 1599; 1619; 1643; 1674; 2365; 2666; 3104; 3188; 3251; 3320; 3593; 4174
Bsh1285I	CGRY!CG	4	89; 946; 2208; 3883
BshFI	GG!CC	27	73; 242; 485; 520; 554; 563; 577; 709; 751; 945; 1265; 1407; 2062; 2068; 2077; 2120; 2207; 2381; 2772; 2799; 3308; 3365; 3398; 3743; 4177; 4195; 4206
BshNI	G!GYRCC	6	63; 145; 205; 1452; 2298; 2333
BshTI	A!CCGGT	1	84
BshVI	AT!CGAT	1	2139
BsiEI	CGRY!CG	4	89; 946; 2208; 3883
BsiHKAI	GWGCW!C	5	38; 175; 2412; 2602; 3907
BsiHKCI	C!YCGRG	2	31; 74
BsiSI	C!CGG	22	19; 75; 85; 665; 797; 832; 1517; 2204; 2281; 2303; 2331; 2462; 2552; 2619; 2800; 3075; 3083; 3175; 3649; 3839; 3865; 4012
BsiWI	C!GTACG	0	
BsI	CCNNNNN!NNGG	22	202; 315; 481; 547; 678; 690; 834; 1311; 1637; 2029; 2280; 2824; 3105; 3137; 3269; 3304; 3354; 3386; 3739; 4018; 4184; 4202
BsIFI	GGGACNNNNNNNNNN!	3	2450; 2982; 3091
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1815; 1887; 1951; 3246
BsmI	GAATGCN!	1	1050
BsmI	G!CATTC	1	1143
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	5	712; 1723; 2141; 3160; 3288

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BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2450; 2982; 3091
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1815; 1887; 1951; 3246
BsnI	GG!CC	27	73; 242; 485; 520; 554; 563; 577; 709; 751; 945; 1265; 1407; 2062; 2068; 2077; 2120; 2207; 2381; 2772; 2799; 3308; 3365; 3398; 3743; 4177; 4195; 4206
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACG	2	712; 3288
BsoBI	C!YCGRG	2	31; 74
Bsp13I	T!CCGGA	1	796
Bsp19I	C!CATGG	3	819; 2028; 2731
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	3102
Bsp24I	!NNNNNNCCANNNNNGTC	2	3523; 3701
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3555; 3733
Bsp24I	!NNNNNNNGACNNNNNTGG	1	3070
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	45; 2981
Bsp120I	G!GGCCC	1	71
Bsp143I	!GATC	26	27; 78; 107; 221; 455; 631; 805; 926; 939; 956; 2136; 2140; 2159; 2470; 2548; 2629; 2638; 2716; 3092; 3108; 3467; 3479; 3557; 3565; 3576; 3651
Bsp1286I	GDGCH!C	15	38; 75; 148; 175; 208; 785; 879; 1490; 2245; 2338; 2412; 2602; 2664; 3374; 3907
Bsp1407I	T!GTACA	1	134
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	30	67; 404; 542; 644; 829; 946; 1614; 1617; 1631; 1721; 1969; 1981; 1990; 2002; 2012; 2023; 2069; 2208; 2271; 2773; 2818; 2884; 2910; 3035; 3038; 3186; 3318; 3625; 3769; 4265
BspACI	G!CGG	28	69; 239; 509; 551; 593; 835; 841; 887; 1559; 1586; 1674; 1784; 2365; 2429; 2530; 2533; 2813; 2868; 2966; 3104; 3251; 3391; 3634; 3879; 4000; 4019; 4146; 4174
BspCNI	CTCAGNNNNNNNN!	3	37; 815; 3424
BspCNI	!NNNNNNNCTGAG	7	342; 548; 1771; 2073; 2954; 3526; 3935
BspDI	AT!CGAT	1	2139
BspD6I	GACTCNNNN!	6	30; 808; 958; 1372; 2978; 3855
BspD6I	!NNNNNGAGTC	2	1335; 1767
BspEI	T!CCGGA	1	796
BspFNI	CG!CG	16	69; 509; 948; 1223; 1599; 1619; 1643; 1674; 2365; 2666; 3104; 3188; 3251; 3320; 3593; 4174
BspHI	T!CATGA	2	1725; 3497
BspLI	GGN!NCC	18	65; 73; 80; 147; 207; 1454; 1475; 1487; 1678; 1839; 1911; 2300; 2335; 3183; 3262; 3307; 4150; 4189
BspMI	ACCTGCNNNN!	3	611; 2567; 3017
BspMI	!NNNNNNNGCAGGT	1	2186
BspOI	GCTAG!C	0	
BspPI	GGATCNNNN!	10	86; 934; 947; 2167; 2478; 2724; 3116; 3475; 3573; 3659
BspPI	!NNNNNGATCC	6	73; 626; 2543; 3087; 3474; 3571
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	2643; 2853
BspTI	C!TTAAG	1	1181
BspT104I	TT!CGAA	2	45; 2981
BspT107I	G!GYRCC	6	63; 145; 205; 1452; 2298; 2333
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	712; 3288
BsrI	ACTGGN!	5	695; 782; 2243; 2444; 3690
BsrI	C!CAGT	4	1328; 2006; 3802; 3815
BsrBI	CCG!CTC	2	1723; 2912
BsrBI	GAG!CGG	3	887; 1559; 2966
BsrDI	GCAATGNN!	1	2532
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	84; 831; 1516; 2618; 2799; 3082
BsrGI	T!GTACA	1	134
BsrSI	ACTGGN!	5	695; 782; 2243; 2444; 3690
BsrSI	C!CAGT	4	1328; 2006; 3802; 3815
BssAI	R!CCGGY	6	84; 831; 1516; 2618; 2799; 3082

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssECI	C!CNNGG	22	67; 74; 179; 314; 315; 410; 819; 878; 1833; 1905; 2028; 2063; 2072; 2121; 2462; 2731; 3136; 3263; 3264; 3366; 3367; 4057
BssHII	G!CGCGC	0	
BssKI	!CCNGG	20	73; 74; 266; 314; 410; 663; 878; 1833; 1888; 1905; 2301; 2461; 2684; 3074; 3263; 3366; 3838; 4056; 4069; 4190
BssMI	!GATC	26	27; 78; 107; 221; 455; 631; 805; 926; 939; 956; 2136; 2140; 2159; 2470; 2548; 2629; 2638; 2716; 3092; 3108; 3467; 3479; 3557; 3565; 3576; 3651
BssNI	GR!CGYC	3	2299; 3001; 3080
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	736; 3017; 4044
BssSI	C!TCGTG	2	586; 2891
BssTII	C!CWVGG	5	819; 2028; 2121; 2731; 3136
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	1766; 2643; 2853
Bst98I	C!TTAAG	1	1181
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	3	2299; 3001; 3080
BstAFI	C!TTAAG	1	1181
BstAPI	GCANNNN!NTGC	4	913; 1866; 1938; 3400
BstAUI	T!GTACA	1	134
BstBI	TT!CGAA	2	45; 2981
Bst2BI	C!ACGAG	3	736; 3017; 4044
Bst2BI	C!TCGTG	2	586; 2891
BstBAI	YAC!GTR	2	1415; 2603
Bst4CI	ACN!GT	11	63; 150; 898; 1390; 2679; 2795; 2903; 3226; 3717; 4187; 4258
BstC8I	GCN!NGC	31	71; 103; 193; 397; 833; 859; 1518; 1561; 1575; 1848; 1867; 1920; 1939; 2193; 2379; 2598; 2664; 2670; 2698; 2702; 2743; 2747; 2801; 3084; 3271; 3318; 3374; 3396; 3607; 4167; 4204
BstDEI	C!TNAG	11	24; 350; 556; 647; 802; 1779; 2081; 2962; 3411; 3534; 3943
BstDSI	C!CRYGG	4	67; 819; 2028; 2731
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	855; 896; 2159; 2616; 2641; 3095
BstF5I	!CATCC	5	175; 263; 320; 475; 1985
BstFNI	CG!CG	16	69; 509; 948; 1223; 1599; 1619; 1643; 1674; 2365; 2666; 3104; 3188; 3251; 3320; 3593; 4174
BstH2I	RGCGC!Y	5	16; 1566; 1574; 2302; 3977
BstHHI	GCG!C	22	15; 846; 1565; 1573; 1599; 1621; 1630; 1643; 1674; 2293; 2301; 2365; 2402; 2668; 2928; 3104; 3190; 3593; 3702; 3876; 3976; 4043
BstKTI	GAT!C	26	30; 81; 110; 224; 458; 634; 808; 929; 942; 959; 2139; 2143; 2162; 2473; 2551; 2632; 2641; 2719; 3095; 3111; 3470; 3482; 3560; 3568; 3579; 3654
BstMAI	GTCTCN!	0	
BstMAI	!NNNNGAGAC	5	712; 1723; 2141; 3160; 3288
BstMBI	!GATC	26	27; 78; 107; 221; 455; 631; 805; 926; 939; 956; 2136; 2140; 2159; 2470; 2548; 2629; 2638; 2716; 3092; 3108; 3467; 3479; 3557; 3565; 3576; 3651
BstMCI	CGRY!CG	4	89; 946; 2208; 3883
BstMWI	GCNNNNN!NNGC	23	129; 560; 841; 913; 1526; 1556; 1583; 1625; 1866; 1938; 1989; 2068; 2290; 2374; 2397; 2536; 2659; 2742; 3009; 3196; 3400; 3599; 4171
BstNI	CC!WGG	13	268; 316; 412; 880; 1835; 1890; 1907; 2686; 3265; 3368; 4058; 4071; 4192
BstNSI	RCATG!Y	5	123; 1869; 1941; 2704; 4221
BstOI	CC!WGG	13	268; 316; 412; 880; 1835; 1890; 1907; 2686; 3265; 3368; 4058; 4071; 4192
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	724
BstSCI	!CCNGG	20	73; 74; 266; 314; 410; 663; 878; 1833; 1888; 1905; 2301; 2461; 2684; 3074; 3263; 3366; 3838; 4056; 4069; 4190
BstSFI	C!TRYAG	5	52; 905; 1634; 3761; 3952
BstSLI	GKGCMI!C	9	75; 148; 175; 208; 785; 879; 2245; 2338; 3907
BstSNI	TAC!GTA	0	
BstUI	CG!CG	16	69; 509; 948; 1223; 1599; 1619; 1643; 1674; 2365; 2666; 3104; 3188; 3251; 3320; 3593; 4174

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bst2UI	CC!WGG	13	268; 316; 412; 880; 1835; 1890; 1907; 2686; 3265; 3368; 4058; 4071; 4192
BstV1I	GCAGCNNNNNNNN!	9	302; 744; 919; 1087; 2372; 2414; 2935; 3388; 3888
BstV1I	!NNNNNNNNNNNGCTGC	8	421; 848; 1581; 2246; 2430; 2523; 3589; 3795
BstV2I	GAAGACNN!	1	392
BstV2I	!NNNNNNGTCTTC	0	
BstX1	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	11	27; 78; 631; 805; 2470; 2716; 3108; 3467; 3479; 3565; 3576
BstYI	R!GATCY	11	27; 78; 631; 805; 2470; 2716; 3108; 3467; 3479; 3565; 3576
BstZI	C!GGCCG	2	943; 2205
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1728; 2518; 4019
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2139
Bsu36I	CC!TNAGG	3	350; 1779; 3411
BsuR1	GG!CC	27	73; 242; 485; 520; 554; 563; 577; 709; 751; 945; 1265; 1407; 2062; 2068; 2077; 2120; 2207; 2381; 2772; 2799; 3308; 3365; 3398; 3743; 4177; 4195; 4206
BsuTUI	AT!CGAT	1	2139
BtgI	C!CRYGG	4	67; 819; 2028; 2731
BtgZI	GCGATGNNNNNNNNNN!	2	1416; 2751
BtgZI	!NNNNNNNNNNNNNNCATCGC	2	2570; 2914
BthCI	GCNG!C	38	242; 293; 437; 512; 554; 735; 844; 864; 910; 948; 1078; 1597; 1619; 1633; 2071; 2210; 2262; 2273; 2363; 2368; 2405; 2446; 2533; 2536; 2539; 2775; 2871; 2912; 2926; 3040; 3379; 3394; 3605; 3811; 3814; 3879; 4022; 4177
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	606; 1138
BtsCI	GGATGNN!	6	855; 896; 2159; 2616; 2641; 3095
BtsCI	!CATCC	5	175; 263; 320; 475; 1985
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	611; 2567; 3017
BveI	!NNNNNNNNGCAGGT	1	2186
Cac8I	GCN!NGC	31	71; 103; 193; 397; 833; 859; 1518; 1561; 1575; 1848; 1867; 1920; 1939; 2193; 2379; 2598; 2664; 2670; 2698; 2702; 2743; 2747; 2801; 3084; 3271; 3318; 3374; 3396; 3607; 4167; 4204
CaiI	CAGNNN!CTG	2	3400; 3808
CciI	T!CATGA	2	1725; 3497
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	4	2588; 2593; 2791; 2932
CdiI	C!GATG	2	1402; 2737
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	4171
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	2	1960; 2002
CelII	GC!TNAGC	0	
CfoI	GCG!C	22	15; 846; 1565; 1573; 1599; 1621; 1630; 1643; 1674; 2293; 2301; 2365; 2402; 2668; 2928; 3104; 3190; 3593; 3702; 3876; 3976; 4043
CfrI	Y!GGCCR	6	749; 943; 2205; 2379; 2770; 2797
Cfr9I	C!CCGGG	1	74
Cfr10I	R!CCGGY	6	84; 831; 1516; 2618; 2799; 3082
Cfr13I	G!GNCC	13	71; 72; 241; 484; 576; 681; 894; 1406; 2815; 3260; 3306; 3364; 3397
Cfr42I	CCG!GG	1	70
Chai	GATC!	26	31; 82; 111; 225; 459; 635; 809; 930; 943; 960; 2140; 2144; 2163; 2474; 2552; 2633; 2642; 2720; 3096; 3112; 3471; 3483; 3561; 3569; 3580; 3655
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	187; 891; 2116; 3556; 3656; 3734
CjeI	!NNNNNNNNNACNNNNNNNTGG	5	1783; 1878; 3070; 3620; 4175
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNNNN!	5	1817; 1912; 3104; 3654; 4209
CjeI	!NNNNNNNNCCANNNNNNGT	6	153; 857; 2082; 3522; 3622; 3700
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNNNN!	2	3556; 3734
CjePI	!NNNNNNNNGANNNNNNNTGG	2	3070; 3669
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNNNN!	2	3103; 3702
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	3523; 3701



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Clai	AT!CGAT	1	2139
CpoI	CG!GWCCG	1	2815
CseI	GACGCNNNNN!	2	3009; 3088
CseI	!NNNNNNNNNNNGCGTC	3	1632; 3527; 4105
CsiI	A!CCWGGT	1	1888
CspI	CG!GWCCG	1	2815
Csp6I	G!TAC	6	64; 135; 285; 537; 756; 2604
Csp45I	TT!CGAA	2	45; 2981
CspAI	A!CCGGT	1	84
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	137; 728; 1579; 3188
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	1	593
CviAII	C!ATG	22	96; 120; 126; 138; 216; 282; 362; 820; 867; 1726; 1866; 1938; 2029; 2170; 2515; 2701; 2732; 2758; 3114; 3498; 4218; 4269
CviJI	RG!CY	96	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; 818; 824; 910; 945; 968; 1078; 1245; 1265; 1407; 1488; 1502; 1516; 1797; 1838; 1910; 2033; 2062; 2068; 2077; 2085; 2108; 2120; 2126; 2207; 2224; 2232; 2259; 2284; 2368; 2377; 2381; 2405; 2443; 2519; 2536; 2555; 2618; 2662; 2672; 2689; 2772; 2799; 2803; 2840; 2863; 2879; 3059; 3086; 3147; 3269; 3308; 3365; 3372; 3379; 3398; 3409; 3660; 3689; 3732; 3743; 3808; 3887; 3912; 3917; 3963; 4053; 4151; 4177; 4195; 4206
CviKI-1	RG!CY	96	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; 818; 824; 910; 945; 968; 1078; 1245; 1265; 1407; 1488; 1502; 1516; 1797; 1838; 1910; 2033; 2062; 2068; 2077; 2085; 2108; 2120; 2126; 2207; 2224; 2232; 2259; 2284; 2368; 2377; 2381; 2405; 2443; 2519; 2536; 2555; 2618; 2662; 2672; 2689; 2772; 2799; 2803; 2840; 2863; 2879; 3059; 3086; 3147; 3269; 3308; 3365; 3372; 3379; 3398; 3409; 3660; 3689; 3732; 3743; 3808; 3887; 3912; 3917; 3963; 4053; 4151; 4177; 4195; 4206
CviQI	G!TAC	6	64; 135; 285; 537; 756; 2604
DdeI	C!TNAG	11	24; 350; 556; 647; 802; 1779; 2081; 2962; 3411; 3534; 3943
DinI	GGC!GCC	1	2300
DpnI	GA!TC	26	29; 80; 109; 223; 457; 633; 807; 928; 941; 958; 2138; 2142; 2161; 2472; 2550; 2631; 2640; 2718; 3094; 3110; 3469; 3481; 3559; 3567; 3578; 3653
DpnII	!GATC	26	27; 78; 107; 221; 455; 631; 805; 926; 939; 956; 2136; 2140; 2159; 2470; 2548; 2629; 2638; 2716; 3092; 3108; 3467; 3479; 3557; 3565; 3576; 3651
DraI	TTT!AAA	3	1001; 3443; 3462
DraII	RG!GNCCY	1	3397
DraIII	CACNNN!GTG	2	678; 1415
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	779; 3779
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	1370; 2326; 4115
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1370; 2326; 4115
EaeI	Y!GGCCR	6	749; 943; 2205; 2379; 2770; 2797
EagI	C!GGCCG	2	943; 2205
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	1766; 2643; 2853
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	1766; 2643; 2853
EciI	GGCGGANNNNNNNNNNNN!	4	1799; 2828; 4015; 4161
EciI	!NNNNNNNNNTCCGCC	3	1970; 1991; 2012
Ecl136II	GAG!CTC	1	36
EclXI	C!GGCCG	2	943; 2205
Eco24I	GRGCY!C	5	38; 75; 1490; 2664; 3374
Eco31I	GGTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco31I	!NNNNNGAGACC	2	712; 3288
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	681; 894; 2815; 3260
Eco47III	AGC!GCT	1	14
Eco52I	C!GGCCG	2	943; 2205
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	601; 2445; 2877
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	3675
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	350; 1779; 3411
Eco88I	C!YCGRG	2	31; 74
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	5	819; 2028; 2121; 2731; 3136
Eco147I	AGG!CCT	1	2120
EcoHI	!CCSGG	7	73; 74; 663; 2301; 2461; 3074; 3838
EcoICRI	GAG!CTC	1	36
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	4	601; 2445; 2877; 3139
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	3082; 3675
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	3397
EcoRI	G!AATTC	1	47
EcoRII	!CCWGG	13	266; 314; 410; 878; 1833; 1888; 1905; 2684; 3263; 3366; 4056; 4069; 4190
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	819; 2028; 2121; 2731; 3136
EcoT22I	ATGCA!T	3	1871; 1943; 4274
EcoT38I	GRGCY!C	5	38; 75; 1490; 2664; 3374
Eco53kl	GAG!CTC	1	36
EgeI	GGC!GCC	1	2300
EheI	GGC!GCC	1	2300
ErhI	C!CWWGG	5	819; 2028; 2121; 2731; 3136
EsaBC3I	TC!GA	18	33; 46; 59; 234; 261; 729; 811; 1449; 2140; 2413; 2569; 2593; 2629; 2791; 2982; 3027; 3282; 4120
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	22	99; 123; 129; 141; 219; 285; 365; 823; 870; 1729; 1869; 1941; 2032; 2173; 2518; 2704; 2735; 2761; 3117; 3501; 4221; 4272
FaiI	YA!TR	48	97; 121; 127; 139; 217; 283; 363; 381; 627; 821; 868; 961; 971; 1037; 1082; 1287; 1715; 1727; 1858; 1867; 1930; 1939; 1963; 2030; 2054; 2171; 2235; 2516; 2541; 2702; 2733; 2759; 2831; 3047; 3115; 3193; 3245; 3406; 3423; 3425; 3427; 3499; 3777; 3966; 4082; 4155; 4219; 4270
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	360; 2639
FalI	!NNNNNNNNAAGNNNNNCTT	2	328; 2607
FaqI	GGGACNNNNNNNNNN!	3	2450; 2982; 3091
FaqI	!NNNNNNNNNNNNNGTCCC	4	1815; 1887; 1951; 3246
FatI	!CATG	22	95; 119; 125; 137; 215; 281; 361; 819; 866; 1725; 1865; 1937; 2028; 2169; 2514; 2700; 2731; 2757; 3113; 3497; 4217; 4268
FauI	CCCGCNNNN!	8	549; 651; 836; 1621; 1976; 1997; 3193; 3325
FauI	!NNNNNGCGGG	8	62; 586; 880; 1552; 2422; 2959; 3097; 3244
FauNDI	CA!TATG	0	
FbaI	T!GATCA	1	107
FblI	GT!MKAC	1	58
FmuI	GGNC!C	13	74; 75; 244; 487; 579; 684; 897; 1409; 2818; 3263; 3309; 3367; 3400
Fnu4HI	GC!NGC	38	240; 291; 435; 510; 552; 733; 842; 862; 908; 946; 1076; 1595; 1617; 1631; 2069; 2208; 2260; 2271; 2361; 2366; 2403; 2444; 2531; 2534; 2537; 2773; 2869; 2910; 2924; 3038; 3377; 3392; 3603; 3809; 3812; 3877; 4020; 4175
FokI	GGATGNNNNNNNN!	6	862; 903; 2166; 2623; 2648; 3102
FokI	!NNNNNNNNNNNNNCATCC	5	162; 250; 307; 462; 1972
FriOI	GRGCY!C	5	38; 75; 1490; 2664; 3374
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2401
FspAI	RTGC!GCAY	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspBI	C!TAG	10	10; 770; 923; 954; 1148; 1566; 2122; 3137; 3471; 3724
FspEI	CCNNNNNNNNNNNN!	142	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; 810; 832; 878; 892; 910; 924; 959; 982; 1021; 1035; 1176; 1271; 1295; 1318; 1341; 1359; 1381; 1402; 1421; 1440; 1469; 1490; 1504; 1530; 1618; 1644; 1693; 1734; 1752; 1791; 1807; 1845; 1902; 1917; 1974; 1994; 2008; 2025; 2039; 2076; 2091; 2134; 2217; 2284; 2315; 2335; 2350; 2395; 2409; 2475; 2489; 2508; 2524; 2565; 2585; 2632; 2682; 2698; 2718; 2743; 2763; 2786; 2813; 2831; 2857; 2897; 2923; 2947; 3003; 3017; 3045; 3088; 3109; 3144; 3188; 3276; 3300; 3322; 3342; 3358; 3379; 3393; 3412; 3496; 3516; 3544; 3559; 3593; 3635; 3662; 3677; 3722; 3746; 3760; 3782; 3808; 3828; 3852; 3878; 3926; 3945; 3964; 3990; 4025; 4070; 4100; 4114; 4165; 4179; 4204; 4220; 4241; 4270
FspEI	!NNNNNNNNNNNNNNNGG	118	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; 782; 806; 826; 865; 909; 927; 970; 1070; 1139; 1169; 1247; 1296; 1318; 1346; 1382; 1427; 1456; 1492; 1511; 1539; 1559; 1622; 1645; 1753; 1785; 1803; 1832; 1875; 1904; 2015; 2044; 2087; 2108; 2136; 2169; 2189; 2214; 2241; 2266; 2288; 2316; 2342; 2363; 2414; 2435; 2453; 2501; 2537; 2593; 2618; 2642; 2671; 2694; 2718; 2744; 2766; 2785; 2810; 2850; 2886; 2951; 3036; 3060; 3089; 3123; 3144; 3164; 3209; 3236; 3255; 3288; 3340; 3371; 3398; 3450; 3548; 3619; 3664; 3725; 3790; 3824; 3850; 3868; 3904; 3974; 3997; 4019; 4043; 4076; 4124; 4159; 4177; 4234
Fsp4HI	GC!NGC	38	240; 291; 435; 510; 552; 733; 842; 862; 908; 946; 1076; 1595; 1617; 1631; 2069; 2208; 2260; 2271; 2361; 2366; 2403; 2444; 2531; 2534; 2537; 2773; 2869; 2910; 2924; 3038; 3377; 3392; 3603; 3809; 3812; 3877; 4020; 4175
GdiII	C!GGCCR	2	943; 2205
GdiII	Y!GGCCG	4	943; 2205; 2770; 2797
GlaI	GC!GC	22	14; 845; 1564; 1572; 1598; 1620; 1629; 1642; 1673; 2292; 2300; 2364; 2401; 2667; 2927; 3103; 3189; 3592; 3701; 3875; 3975; 4042
GluI	GC!NGC	38	240; 291; 435; 510; 552; 733; 842; 862; 908; 946; 1076; 1595; 1617; 1631; 2069; 2208; 2260; 2271; 2361; 2366; 2403; 2444; 2531; 2534; 2537; 2773; 2869; 2910; 2924; 3038; 3377; 3392; 3603; 3809; 3812; 3877; 4020; 4175
GsaI	CCCAG!C	3	1846; 1918; 3917
GsaI	GCTGG!G	2	516; 2807
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3139
GsuI	!NNNNNNNNNNNNNNNCTCCAG	1	3082
HaeI	WGG!CCW	8	520; 563; 751; 2120; 2381; 3743; 4195; 4206
HaeII	RGCG!Y	5	16; 1566; 1574; 2302; 3977
HaeIII	GG!CC	27	73; 242; 485; 520; 554; 563; 577; 709; 751; 945; 1265; 1407; 2062; 2068; 2077; 2120; 2207; 2381; 2772; 2799; 3308; 3365; 3398; 3743; 4177; 4195; 4206
HaeIV	GAYNNNNRNTCNNNNNNNNNNNN!	4	830; 915; 974; 2495
HaeIV	!NNNNNNNNNGAYNNNNNRTC	4	796; 881; 940; 2461
HaeIV	GAYNNNNRNTCNNNNNNNNNNNN!	4	829; 914; 973; 2494
HaeIV	!NNNNNNNGAYNNNNNRTC	4	798; 883; 942; 2463
HapII	C!CGG	22	19; 75; 85; 665; 797; 832; 1517; 2204; 2281; 2303; 2331; 2462; 2552; 2619; 2800; 3075; 3083; 3175; 3649; 3839; 3865; 4012
HgaI	GACGCNNNNN!	2	3009; 3088
HgaI	!NNNNNNNNNGCGTC	3	1632; 3527; 4105
HhaI	GCG!C	22	15; 846; 1565; 1573; 1599; 1621; 1630; 1643; 1674; 2293; 2301; 2365; 2402; 2668; 2928; 3104; 3190; 3593; 3702; 3876; 3976; 4043
HinI	GR!CGYC	3	2299; 3001; 3080
HinIII	CATG!	22	99; 123; 129; 141; 219; 285; 365; 823; 870; 1729; 1869; 1941; 2032; 2173; 2518; 2704; 2735; 2761; 3117; 3501; 4221; 4272
Hin4I	GAYNNNNVTCNNNNNNNNNNNN!	4	829; 914; 973; 2494
Hin4I	!NNNNNNNNGABNNNNNRTC	5	797; 882; 941; 2462; 2492
Hin4I	GABNNNNRNTCNNNNNNNNNNNN!	5	829; 914; 973; 2494; 2524
Hin4I	!NNNNNNNNGAYNNNNNVTC	4	797; 882; 941; 2462

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin6I	G!CGC	22	13; 844; 1563; 1571; 1597; 1619; 1628; 1641; 1672; 2291; 2299; 2363; 2400; 2666; 2926; 3102; 3188; 3591; 3700; 3874; 3974; 4041
HinP1I	G!CGC	22	13; 844; 1563; 1571; 1597; 1619; 1628; 1641; 1672; 2291; 2299; 2363; 2400; 2666; 2926; 3102; 3188; 3591; 3700; 3874; 3974; 4041
HincII	GTY!RAC	2	59; 1062
HindII	GTY!RAC	2	59; 1062
HindIII	A!AGCTT	1	40
HinfI	G!ANTC	17	22; 371; 698; 793; 800; 812; 950; 1342; 1364; 1774; 2784; 2918; 2970; 3028; 3065; 3847; 4243
HpaI	GTT!AAC	1	1062
HpaII	C!CGG	22	19; 75; 85; 665; 797; 832; 1517; 2204; 2281; 2303; 2331; 2462; 2552; 2619; 2800; 3075; 3083; 3175; 3649; 3839; 3865; 4012
HphI	GGTGANNNNNNN!	3	477; 3370; 3486
HphI	!NNNNNNNTCACC	4	366; 892; 1416; 2477
Hpy8I	GTN!NAC	10	59; 153; 173; 468; 681; 1062; 1346; 1363; 1418; 3905
Hpy99I	CGWCG!	9	63; 730; 2389; 2417; 2711; 2726; 3003; 3388; 4121
Hpy166II	GTN!NAC	10	59; 153; 173; 468; 681; 1062; 1346; 1363; 1418; 3905
Hpy188I	TCN!GA	13	27; 180; 805; 1473; 2082; 2266; 2610; 2963; 3064; 3543; 3677; 4030; 4108
Hpy188III	TC!NNGA	27	31; 426; 453; 618; 657; 797; 809; 954; 1726; 1778; 2091; 2144; 2317; 2633; 2642; 2725; 2781; 2825; 2915; 2948; 3017; 3498; 3572; 3655; 3753; 3851; 3985
HpyAV	CCTTCNNNNNN!	7	261; 309; 354; 624; 2944; 3051; 3730
HpyAV	!NNNNNGAAGG	8	181; 1532; 2427; 3156; 3172; 3355; 3672; 3982
HpyCH4III	ACN!GT	11	63; 150; 898; 1390; 2679; 2795; 2903; 3226; 3717; 4187; 4258
HpyCH4IV	A!CGT	10	449; 725; 1359; 1371; 1414; 1524; 2415; 2602; 3383; 3516
HpyCH4V	TG!CA	23	54; 123; 173; 437; 495; 606; 907; 1048; 1075; 1143; 1860; 1869; 1932; 1941; 2056; 2132; 2191; 2350; 2525; 2539; 3609; 3905; 4272
HpyF3I	C!TNAG	11	24; 350; 556; 647; 802; 1779; 2081; 2962; 3411; 3534; 3943
HpyF10VI	GCNNNNN!NNGC	23	129; 560; 841; 913; 1526; 1556; 1583; 1625; 1866; 1938; 1989; 2068; 2290; 2374; 2397; 2536; 2659; 2742; 3009; 3196; 3400; 3599; 4171
Hsp92I	GR!CGYC	3	2299; 3001; 3080
Hsp92II	CATG!	22	99; 123; 129; 141; 219; 285; 365; 823; 870; 1729; 1869; 1941; 2032; 2173; 2518; 2704; 2735; 2761; 3117; 3501; 4221; 4272
HspAI	G!CGC	22	13; 844; 1563; 1571; 1597; 1619; 1628; 1641; 1672; 2291; 2299; 2363; 2400; 2666; 2926; 3102; 3188; 3591; 3700; 3874; 3974; 4041
KasI	G!GCGCC	1	2298
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	67
Kpn2I	T!CCGGA	1	796
KspI	CCGC!GG	1	70
Ksp22I	T!GATCA	1	107
KspAI	GTT!AAC	1	1062
Kzo9I	!GATC	26	27; 78; 107; 221; 455; 631; 805; 926; 939; 956; 2136; 2140; 2159; 2470; 2548; 2629; 2638; 2716; 3092; 3108; 3467; 3479; 3557; 3565; 3576; 3651
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	2643; 2853
LpnI	RGC!GCV	5	14; 1564; 1572; 2300; 3975
LpnPI	CCDGNNNNNNNNNN!	61	32; 88; 223; 280; 328; 362; 424; 439; 500; 568; 583; 616; 678; 810; 845; 892; 917; 1036; 1341; 1530; 1753; 1791; 1807; 1847; 1902; 1919; 2019; 2104; 2217; 2294; 2316; 2339; 2475; 2489; 2508; 2565; 2632; 2682; 2698; 2755; 2813; 3022; 3088; 3112; 3188; 3277; 3380; 3413; 3644; 3662; 3808; 3828; 3852; 3878; 3927; 4025; 4070; 4100; 4179; 4204; 4241
LpnPI	!NNNNNNNNNNNNNCHGG	53	4; 60; 253; 301; 397; 498; 650; 676; 763; 782; 817; 865; 1382; 1502; 1559; 1622; 1820; 1832; 1892; 1904; 2136; 2181; 2224; 2266; 2288; 2316; 2363; 2425; 2447; 2537; 2604; 2627; 2671; 2766; 2785; 2810; 2959; 3060; 3103; 3160; 3250; 3353; 3380; 3398; 3634; 3671; 3824; 3850; 3990; 4008; 4043; 4124; 4177
Lsp1109I	GCAGCNNNNNNN!	9	302; 744; 919; 1087; 2372; 2414; 2935; 3388; 3888

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Lsp1109I	!NNNNNNNNNNNGCTGC	8	421; 848; 1581; 2246; 2430; 2523; 3589; 3795
LweI	GCATCNNNNN!	8	329; 446; 1115; 1878; 1950; 2598; 2662; 2937
LweI	!NNNNNNNNNGATGC	7	482; 521; 650; 2257; 2512; 2728; 4120
MabI	A!CCWGGT	1	1888
MaeI	C!TAG	10	10; 770; 923; 954; 1148; 1566; 2122; 3137; 3471; 3724
MaeII	A!CGT	10	449; 725; 1359; 1371; 1414; 1524; 2415; 2602; 3383; 3516
MaeIII	!GTNAC	10	898; 1087; 1588; 1600; 2419; 2725; 3415; 3681; 3797; 3860
MalI	GA!TC	26	29; 80; 109; 223; 457; 633; 807; 928; 941; 958; 2138; 2142; 2161; 2472; 2550; 2631; 2640; 2718; 3094; 3110; 3469; 3481; 3559; 3567; 3578; 3653
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1723; 2912
MbiI	GAG!CGG	3	887; 1559; 2966
MboI	!GATC	26	27; 78; 107; 221; 455; 631; 805; 926; 939; 956; 2136; 2140; 2159; 2470; 2548; 2629; 2638; 2716; 3092; 3108; 3467; 3479; 3557; 3565; 3576; 3651
MboII	GAAGANNNNNNN!	8	231; 397; 510; 1555; 1783; 2660; 2870; 3489
MboII	!NNNNNNNTCTTC	4	2950; 3117; 3317; 3560
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1049
MflI	R!GATCY	11	27; 78; 631; 805; 2470; 2716; 3108; 3467; 3479; 3565; 3576
MhII	GDGCH!C	15	38; 75; 148; 175; 208; 785; 879; 1490; 2245; 2338; 2412; 2602; 2664; 3374; 3907
MIsI	TGG!CCA	2	751; 2381
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	751; 2381
MlyI	GAGTCNNNNN!	2	1351; 1783
MlyI	!NNNNNGACTC	6	16; 794; 944; 1358; 2964; 3841
Mly113I	GG!CGCC	1	2299
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	503; 1392
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	3824; 4008
MnII	CCTCNNNNNNN!	10	254; 664; 775; 1018; 2082; 2900; 3106; 3420; 3790; 4114
MnII	!NNNNNGAGG	20	135; 174; 195; 228; 345; 510; 553; 699; 978; 1443; 1774; 2052; 2095; 2110; 2150; 2214; 2350; 2707; 3137; 4040
Mph1103I	ATGCA!T	3	1871; 1943; 4274
MreI	CG!CCGGCG	1	831
MroI	T!CCGGA	1	796
MroNI	G!CCGGC	4	831; 1516; 2799; 3082
MroXI	GAANN!NN TTC	0	
MscI	TGG!CCA	2	751; 2381
MseI	T!TAA	15	335; 1000; 1061; 1182; 1203; 1214; 1226; 1237; 1254; 1352; 1623; 3442; 3456; 3461; 3513
MslI	CAYNN!NNRTG	4	124; 529; 788; 2736
MspI	C!CGG	22	19; 75; 85; 665; 797; 832; 1517; 2204; 2281; 2303; 2331; 2462; 2552; 2619; 2800; 3075; 3083; 3175; 3649; 3839; 3865; 4012
Msp20I	TGG!CCA	2	751; 2381
MspA1I	CMG!CKG	6	69; 544; 1797; 2405; 3634; 3879
MspCI	C!TTAAG	1	1181

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	222	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; 809; 823; 840; 857; 870; 884; 900; 916; 935; 959; 972; 987; 1006; 1023; 1036; 1077; 1091; 1104; 1122; 1160; 1175; 1193; 1234; 1258; 1278; 1296; 1317; 1340; 1372; 1387; 1409; 1427; 1440; 1461; 1478; 1491; 1504; 1520; 1533; 1563; 1578; 1603; 1621; 1634; 1649; 1673; 1687; 1711; 1736; 1752; 1790; 1806; 1845; 1859; 1873; 1901; 1917; 1931; 1945; 1974; 1987; 2008; 2017; 2039; 2069; 2085; 2103; 2133; 2156; 2180; 2204; 2223; 2251; 2277; 2293; 2306; 2329; 2343; 2363; 2376; 2390; 2409; 2423; 2436; 2452; 2467; 2480; 2496; 2511; 2527; 2552; 2571; 2587; 2600; 2613; 2631; 2645; 2659; 2675; 2697; 2713; 2732; 2754; 2770; 2793; 2812; 2826; 2842; 2856; 2876; 2892; 2905; 2927; 2960; 2974; 2994; 3007; 3021; 3075; 3088; 3111; 3124; 3143; 3160; 3187; 3223; 3256; 3275; 3300; 3321; 3348; 3361; 3378; 3392; 3407; 3423; 3483; 3508; 3524; 3546; 3559; 3573; 3604; 3618; 3643; 3661; 3676; 3689; 3708; 3721; 3736; 3765; 3784; 3802; 3827; 3842; 3861; 3877; 3896; 3914; 3930; 3944; 3963; 3990; 4013; 4035; 4054; 4069; 4082; 4099; 4119; 4146; 4159; 4178; 4203; 4226; 4240; 4253; 4270
MspJI	!NNNNNNNNNNNNNYNG	180	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; 782; 801; 818; 844; 865; 890; 909; 928; 951; 980; 1009; 1051; 1134; 1169; 1196; 1219; 1248; 1292; 1314; 1346; 1382; 1399; 1420; 1457; 1477; 1494; 1511; 1546; 1564; 1582; 1599; 1623; 1645; 1672; 1700; 1726; 1764; 1785; 1802; 1820; 1843; 1864; 1892; 1915; 1936; 1954; 1975; 1992; 2015; 2039; 2059; 2077; 2099; 2130; 2152; 2178; 2197; 2214; 2242; 2261; 2280; 2298; 2316; 2337; 2359; 2383; 2416; 2436; 2454; 2475; 2501; 2528; 2545; 2562; 2579; 2605; 2627; 2649; 2667; 2687; 2706; 2728; 2766; 2786; 2810; 2830; 2850; 2877; 2901; 2934; 2953; 2981; 3003; 3032; 3060; 3085; 3104; 3123; 3144; 3161; 3178; 3209; 3236; 3256; 3279; 3299; 3336; 3353; 3372; 3398; 3418; 3457; 3484; 3503; 3521; 3558; 3576; 3617; 3635; 3661; 3678; 3710; 3739; 3767; 3788; 3811; 3830; 3851; 3869; 3886; 3904; 3930; 3951; 3971; 3991; 4009; 4030; 4056; 4073; 4092; 4111; 4140; 4159; 4177; 4196; 4214; 4232; 4255
MspR9I	CC!NGG	20	75; 76; 268; 316; 412; 665; 880; 1835; 1890; 1907; 2303; 2463; 2686; 3076; 3265; 3368; 3840; 4058; 4071; 4192
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1049
MvaI	CC!WGG	13	268; 316; 412; 880; 1835; 1890; 1907; 2686; 3265; 3368; 4058; 4071; 4192
Mva1269I	GAATGCN!	1	1050
Mva1269I	G!CATTC	1	1143
MvnI	CG!CG	16	69; 509; 948; 1223; 1599; 1619; 1643; 1674; 2365; 2666; 3104; 3188; 3251; 3320; 3593; 4174
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	23	129; 560; 841; 913; 1526; 1556; 1583; 1625; 1866; 1938; 1989; 2068; 2290; 2374; 2397; 2536; 2659; 2742; 3009; 3196; 3400; 3599; 4171
NaeI	GCC!GGC	4	833; 1518; 2801; 3084
NarI	GG!CGCC	1	2299
NciI	CC!SGG	7	75; 76; 665; 2303; 2463; 3076; 3840
NcoI	C!CATGG	3	819; 2028; 2731
NdeI	CA!TATG	0	
NdeII	!GATC	26	27; 78; 107; 221; 455; 631; 805; 926; 939; 956; 2136; 2140; 2159; 2470; 2548; 2629; 2638; 2716; 3092; 3108; 3467; 3479; 3557; 3565; 3576; 3651
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	212
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	248
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	4	831; 1516; 2799; 3082
NheI	G!CTAGC	0	
NlaIII	CATG!	22	99; 123; 129; 141; 219; 285; 365; 823; 870; 1729; 1869; 1941; 2032; 2173; 2518; 2704; 2735; 2761; 3117; 3501; 4221; 4272

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NlaIV	GGN!NCC	18	65; 73; 80; 147; 207; 1454; 1475; 1487; 1678; 1839; 1911; 2300; 2335; 3183; 3262; 3307; 4150; 4189
NlaCI	CATCACNNNNNNNNNNNNNNNNNNNN!	3	1131; 1446; 3038
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	472; 4110
Nli3877I	CYCGR!G	2	35; 78
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNNNN!	2	2088; 2524
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2053
NmeDI	RCCGGYNNNNNNNN!	6	96; 843; 1528; 2630; 2811; 3094
NmeDI	!NNNNNNNNNNNNRCCGGY	6	71; 818; 1503; 2605; 2786; 3069
NmuCI	!GTSAC	4	898; 1588; 2419; 2725
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2401
NsiI	ATGCA!T	3	1871; 1943; 4274
NspI	RCATG!Y	5	123; 1869; 1941; 2704; 4221
NspV	TT!CGAA	2	45; 2981
OliI	CACNN!NNGTG	0	
PabI	GTA!C	6	66; 137; 287; 539; 758; 2606
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1869; 1941; 2704
PaeR7I	C!TCGAG	1	31
PagI	T!CATGA	2	1725; 3497
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	315; 3264; 3367
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2120
PciI	A!CATGT	1	4217
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	2643; 2853
PcsI	WCGNNNN!NNNCGW	7	734; 2593; 2670; 2913; 2987; 3380; 3898
PctI	GAATGCN!	1	1050
PctI	G!CATTC	1	1143
PdiI	GCC!GGC	4	833; 1518; 2801; 3084
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	9	371; 698; 793; 812; 2784; 2918; 3028; 3065; 4243
Pfl23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	2417
PfimiI	CCANNNN!NTGG	2	678; 690
PfoI	T!CCNGGA	1	3074
PhoI	GG!CC	27	73; 242; 485; 520; 554; 563; 577; 709; 751; 945; 1265; 1407; 2062; 2068; 2077; 2120; 2207; 2381; 2772; 2799; 3308; 3365; 3398; 3743; 4177; 4195; 4206
PinAI	A!CCGGT	1	84
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	2680
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2245; 2500
PleI	GAGTCNNNN!	2	1350; 1782
PleI	!NNNNNGACTC	6	16; 794; 944; 1358; 2964; 3841
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNNCTCNNNNNNNNNNNN!	1	1381
PpiI	!NNNNNNNGAGNNNNNNNGTTC	1	3511
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3543
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1349
PpsI	GAGTCNNNN!	2	1350; 1782
PpsI	!NNNNNGACTC	6	16; 794; 944; 1358; 2964; 3841
Ppu10I	A!TGCAT	3	1867; 1939; 4270
Ppu21I	YAC!GTR	2	1415; 2603
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4217
PshAI	GACNN!NNGTC	1	724
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	2	1082; 1287
Psp03I	GGWC!C	4	684; 897; 2818; 3263

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	13	266; 314; 410; 878; 1833; 1888; 1905; 2684; 3263; 3366; 4056; 4069; 4190
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	38
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	13	266; 314; 410; 878; 1833; 1888; 1905; 2684; 3263; 3366; 4056; 4069; 4190
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	18	65; 73; 80; 147; 207; 1454; 1475; 1487; 1678; 1839; 1911; 2300; 2335; 3183; 3262; 3307; 4150; 4189
PspOMI	G!GGCCC	1	71
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	2	2029; 3028
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2431
PspPI	G!GNCC	13	71; 72; 241; 484; 576; 681; 894; 1406; 2815; 3260; 3306; 3364; 3397
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	1852; 1924; 3430
PspPRI	!NNNNNNNNNNNNNCTGRGG	4	336; 764; 1765; 2960
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3400
PstI	CTGCA!G	2	56; 909
PstNI	CAGNNN!CTG	2	3400; 3808
PsuI	R!GATCY	11	27; 78; 631; 805; 2470; 2716; 3108; 3467; 3479; 3565; 3576
Psyl	GACN!NNGTC	1	2417
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1797; 2405
RcaI	T!CATGA	2	1725; 3497
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	2814
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1028
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	65; 136; 286; 538; 757; 2605
RsaNI	G!TAC	6	64; 135; 285; 537; 756; 2604
RseI	CAYNN!NNRTG	4	124; 529; 788; 2736
RsrII	CG!GWCCG	1	2815
Rsr2I	CG!GWCCG	1	2815
SacI	GAGCT!C	1	38
SacII	CCGC!GG	1	70
SalI	G!TCGAC	1	57
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	2643; 2853
SaqAI	T!TAA	15	335; 1000; 1061; 1182; 1203; 1214; 1226; 1237; 1254; 1352; 1623; 3442; 3456; 3461; 3513
SatI	GC!NGC	38	240; 291; 435; 510; 552; 733; 842; 862; 908; 946; 1076; 1595; 1617; 1631; 2069; 2208; 2260; 2271; 2361; 2366; 2403; 2444; 2531; 2534; 2537; 2773; 2869; 2910; 2924; 3038; 3377; 3392; 3603; 3809; 3812; 3877; 4020; 4175
Sau96I	G!GNCC	13	71; 72; 241; 484; 576; 681; 894; 1406; 2815; 3260; 3306; 3364; 3397
Sau3AI	!GATC	26	27; 78; 107; 221; 455; 631; 805; 926; 939; 956; 2136; 2140; 2159; 2470; 2548; 2629; 2638; 2716; 3092; 3108; 3467; 3479; 3557; 3565; 3576; 3651



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sbfl	CCTGCA!GG	0	
ScaI	AGT!ACT	1	757
SchI	GAGTCNNNNN!	2	1351; 1783
SchI	!NNNNNGACTC	6	16; 794; 944; 1358; 2964; 3841
SciI	CTC!GAG	1	33
ScrFI	CC!NGG	20	75; 76; 268; 316; 412; 665; 880; 1835; 1890; 1907; 2303; 2463; 2686; 3076; 3265; 3368; 3840; 4058; 4071; 4192
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	6	522; 906; 1877; 1949; 2118; 4060
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	897; 2454; 2939
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	15	38; 75; 148; 175; 208; 785; 879; 1490; 2245; 2338; 2412; 2602; 2664; 3374; 3907
SelI	!CGCG	16	67; 507; 946; 1221; 1597; 1617; 1641; 1672; 2363; 2664; 3102; 3186; 3249; 3318; 3591; 4172
SetI	ASST!	54	38; 44; 107; 134; 230; 280; 424; 452; 587; 605; 656; 724; 728; 767; 989; 1010; 1019; 1031; 1080; 1247; 1362; 1374; 1417; 1454; 1504; 1527; 1651; 1799; 1894; 2087; 2200; 2328; 2407; 2418; 2490; 2561; 2605; 2865; 3011; 3055; 3386; 3417; 3476; 3519; 3662; 3683; 3782; 3919; 3934; 3953; 3965; 4009; 4055; 4106
SexAI	A!CCWGGT	1	1888
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	329; 446; 1115; 1878; 1950; 2598; 2662; 2937
SfaNI	!NNNNNNNNNGATGC	7	482; 521; 650; 2257; 2512; 2728; 4120
Sfcl	C!TRYAG	5	52; 905; 1634; 3761; 3952
SfiI	GGCCNNNN!NGGCC	2	560; 2074
SfoI	GGC!GCC	1	2300
Sfr274I	C!TCGAG	1	31
Sfr303I	CCGC!GG	1	70
SfuI	TT!CGAA	2	45; 2981
SgeI	CNNGNNNNNNNNNN!	178	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; 809; 832; 859; 879; 892; 916; 935; 959; 1006; 1035; 1077; 1160; 1234; 1318; 1340; 1372; 1409; 1427; 1446; 1461; 1503; 1520; 1537; 1572; 1586; 1603; 1625; 1649; 1673; 1738; 1752; 1790; 1806; 1846; 1859; 1878; 1901; 1918; 1931; 1950; 1980; 2001; 2018; 2041; 2076; 2103; 2134; 2156; 2182; 2204; 2223; 2251; 2287; 2306; 2329; 2343; 2363; 2376; 2390; 2409; 2423; 2442; 2474; 2488; 2501; 2527; 2558; 2571; 2588; 2605; 2619; 2636; 2654; 2669; 2697; 2713; 2732; 2754; 2770; 2793; 2812; 2837; 2856; 2876; 2903; 2927; 2960; 2979; 3007; 3021; 3087; 3111; 3126; 3149; 3170; 3187; 3235; 3262; 3276; 3305; 3329; 3362; 3379; 3399; 3412; 3425; 3483; 3510; 3529; 3559; 3584; 3604; 3618; 3643; 3661; 3698; 3736; 3765; 3793; 3807; 3827; 3842; 3863; 3877; 3896; 3914; 3930; 3970; 3990; 4017; 4035; 4056; 4069; 4082; 4099; 4123; 4146; 4178; 4203; 4230; 4252
SgeI	!NNNNNNNNNNNNNCNNG	154	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; 783; 806; 833; 853; 874; 897; 933; 980; 1009; 1051; 1134; 1208; 1292; 1314; 1346; 1383; 1401; 1420; 1477; 1494; 1511; 1546; 1564; 1584; 1604; 1623; 1647; 1712; 1764; 1820; 1852; 1875; 1892; 1924; 1954; 1975; 1992; 2015; 2050; 2077; 2108; 2130; 2156; 2178; 2197; 2225; 2261; 2280; 2303; 2324; 2342; 2359; 2383; 2416; 2448; 2475; 2501; 2532; 2562; 2579; 2605; 2628; 2649; 2671; 2691; 2711; 2728; 2767; 2786; 2811; 2830; 2850; 2877; 2901; 2934; 2953; 2981; 3003; 3061; 3085; 3104; 3123; 3144; 3161; 3209; 3236; 3256; 3279; 3303; 3336; 3353; 3373; 3399; 3457; 3484; 3503; 3533; 3558; 3578; 3617; 3635; 3672; 3710; 3739; 3767; 3788; 3816; 3837; 3870; 3888; 3944; 3964; 3991; 4009; 4030; 4056; 4073; 4097; 4120; 4152; 4177; 4204; 4226; 4255
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	831
SgrBI	CCGC!GG	1	70

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1446; 3233; 4026
SimI	!GACCC	3	2727; 3295; 3543
SinI	G!GWCC	4	681; 894; 2815; 3260
SlaI	C!TCGAG	1	31
SmaI	CCC!GGG	1	76
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	124; 529; 788; 2736
SmlI	C!TYRAG	8	31; 37; 655; 1181; 2690; 3572; 3849; 4111
SmoI	C!TYRAG	8	31; 37; 655; 1181; 2690; 3572; 3849; 4111
SmuI	CCCGCNNNN!	8	549; 651; 836; 1621; 1976; 1997; 3193; 3325
SmuI	!NNNNNNGCGGG	8	62; 586; 880; 1552; 2422; 2959; 3097; 3244
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1869; 1941; 2704
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	47; 1049; 1113; 1191; 1217; 1228; 1875; 1947; 2039; 3457
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2120
SsiI	C!CGC	30	67; 404; 542; 644; 829; 946; 1614; 1617; 1631; 1721; 1969; 1981; 1990; 2002; 2012; 2023; 2069; 2208; 2271; 2773; 2818; 2884; 2910; 3035; 3038; 3186; 3318; 3625; 3769; 4265
SsiI	G!CGG	28	69; 239; 509; 551; 593; 835; 841; 887; 1559; 1586; 1674; 1784; 2365; 2429; 2530; 2533; 2813; 2868; 2966; 3104; 3251; 3391; 3634; 3879; 4000; 4019; 4146; 4174
SspI	AAT!ATT	2	1207; 1760
SspDI	G!GCGCC	1	2298
SspD5I	GGTGANNNNNNNN!	3	477; 3370; 3486
SspD5I	!NNNNNNNNNTCACC	4	365; 891; 1415; 2476
SstI	GAGCT!C	1	38
SstII	CCGC!GG	1	70
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	410
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	18	81; 332; 548; 650; 671; 835; 1498; 1620; 1975; 1996; 2309; 2712; 2851; 2922; 3192; 3324; 3554; 3992
Sth132I	!NNNNNNNNNCGGG	20	61; 381; 453; 585; 879; 1499; 1551; 1652; 2379; 2421; 2454; 2958; 3067; 3096; 3243; 3347; 3378; 3831; 3875; 4083
Sth302II	CC!GG	22	20; 76; 86; 666; 798; 833; 1518; 2205; 2282; 2304; 2332; 2463; 2553; 2620; 2801; 3076; 3084; 3176; 3650; 3840; 3866; 4013
StrI	C!TCGAG	1	31
StsI	GGATGNNNNNNNNNN!	6	863; 904; 2167; 2624; 2649; 3103
StsI	!NNNNNNNNNNNNNNCATCC	5	161; 249; 306; 461; 1971
StuI	AGG!CCT	1	2120
StyI	C!CWWGG	5	819; 2028; 2121; 2731; 3136
StyD4I	!CCNGG	20	73; 74; 266; 314; 410; 663; 878; 1833; 1888; 1905; 2301; 2461; 2684; 3074; 3263; 3366; 3838; 4056; 4069; 4190
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	11	63; 150; 898; 1390; 2679; 2795; 2903; 3226; 3717; 4187; 4258
TaiI	ACGT!	10	452; 728; 1362; 1374; 1417; 1527; 2418; 2605; 3386; 3519
TaqI	T!CGA	18	32; 45; 58; 233; 260; 728; 810; 1448; 2139; 2412; 2568; 2592; 2628; 2790; 2981; 3026; 3281; 4119
TaqII	GACCGANNNNNNNNNN!	3	1319; 2336; 3004
TaqII	!NNNNNNNNNTCGGTC	1	3248
TaqII	CACCCANNNNNNNNNN!	2	223; 328
TaqII	!NNNNNNNNNTGGGTG	2	2203; 2795
TasI	!AATT	10	47; 1049; 1113; 1191; 1217; 1228; 1875; 1947; 2039; 3457
TatI	W!GTACW	2	134; 755
TauI	GCSG!C	20	242; 512; 554; 844; 948; 1619; 1633; 2071; 2210; 2273; 2368; 2533; 2536; 2775; 2871; 2912; 3040; 3394; 4022; 4177
TfiI	G!AWTC	9	371; 698; 793; 812; 2784; 2918; 3028; 3065; 4243
ThiI	C!TCGAG	1	31
TruII	T!TAA	15	335; 1000; 1061; 1182; 1203; 1214; 1226; 1237; 1254; 1352; 1623; 3442; 3456; 3461; 3513

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Tru9I	T!TAA	15	335; 1000; 1061; 1182; 1203; 1214; 1226; 1237; 1254; 1352; 1623; 3442; 3456; 3461; 3513
TscAI	CASTGNN!	6	613; 1145; 2428; 3538; 3809; 3822
TseI	G!CWGC	18	290; 434; 732; 861; 907; 1075; 1594; 2259; 2360; 2402; 2443; 2536; 2923; 3376; 3602; 3808; 3811; 3876
TsoI	TARCCANNNNNNNNNN!	2	1271; 1618
TsoI	!NNNNNNNNNTGGYTA	3	259; 1076; 2828
Tsp45I	!GTSAC	4	898; 1588; 2419; 2725
Tsp509I	!AATT	10	47; 1049; 1113; 1191; 1217; 1228; 1875; 1947; 2039; 3457
TspDTI	ATGAANNNNNNNNNN!	6	142; 232; 806; 1057; 2358; 3062
TspDTI	!NNNNNNNNNTTCAT	5	270; 291; 2776; 3232; 3439
TspEI	!AATT	10	47; 1049; 1113; 1191; 1217; 1228; 1875; 1947; 2039; 3457
TspGWI	ACGGANNNNNNNNNN!	1	3174
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	74
TspRI	CASTGNN!	6	613; 1145; 2428; 3538; 3809; 3822
TstI	CACNNNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2417
Tth111II	CAARCAANNNNNNNNNN!	1	3626
Tth111II	!NNNNNNNNNTGYTTG	3	2734; 3594; 3633
UnbI	!GGNCC	13	70; 71; 240; 483; 575; 680; 893; 1405; 2814; 3259; 3305; 3363; 3396
Van9II	CCANNNN!NTGG	2	678; 690
Vha464I	C!TTAAG	1	1181
VneI	G!TGCAC	2	171; 3903
VpaK11AI	!GGWCC	4	680; 893; 2814; 3259
VpaK11BI	G!GWCC	4	681; 894; 2815; 3260
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	47; 1113; 1217; 1228
XbaI	T!CTAGA	1	953
XceI	RCATG!Y	5	123; 1869; 1941; 2704; 4221
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	1	31
XhoII	R!GATCY	11	27; 78; 631; 805; 2470; 2716; 3108; 3467; 3479; 3565; 3576
XmaI	C!CCGGG	1	74
XmaJI	C!CTAGG	2	2121; 3136
XmiI	GT!MKAC	1	58
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	10	10; 770; 923; 954; 1148; 1566; 2122; 3137; 3471; 3724
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	1	757
Zsp2I	ATGCA!T	3	1871; 1943; 4274