

pTurboFP602-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	946; 1151
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1234; 2190; 3979
AatI	AGG!CCT	1	1984
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	58
AccII	CG!CG	15	69; 812; 1087; 1463; 1483; 1507; 1538; 2229; 2530; 2968; 3052; 3115; 3184; 3457; 4038
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2265
Acc36I	ACCTGCNNNN!	3	623; 2431; 2881
Acc36I	!NNNNNNNNGCAGGT	1	2050
Acc65I	G!GTACC	1	63
AccB1I	G!GYRCC	6	63; 157; 217; 1316; 2162; 2197
AccB7I	CCANNNN!NTGG	2	690; 702
AccBSI	CCG!CTC	2	1587; 2776
AccBSI	GAG!CGG	2	1423; 2830
AceIII	CAGCTCNNNNNNN!	1	1119
AceIII	!NNNNNNNNNNGAGCTG	1	103
AcI	C!CGC	29	67; 416; 554; 656; 810; 1478; 1481; 1495; 1585; 1833; 1845; 1854; 1866; 1876; 1887; 1933; 2072; 2135; 2637; 2682; 2748; 2774; 2899; 2902; 3050; 3182; 3489; 3633; 4129
AcI	G!CGG	25	69; 251; 563; 605; 806; 1423; 1450; 1538; 1648; 2229; 2293; 2394; 2397; 2677; 2732; 2830; 2968; 3115; 3255; 3498; 3743; 3864; 3883; 4010; 4038
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	8	86; 2031; 2342; 2588; 2980; 3339; 3437; 3523
AcIWI	!NNNNNGATCC	6	73; 638; 2407; 2951; 3338; 3435
AcoI	Y!GGCCR	7	579; 761; 807; 2069; 2243; 2634; 2661
AcsI	R!AATTY	4	47; 977; 1081; 1092
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	613; 2309; 2741
AcuI	!NNNNNNNNNNNNNCTTCAG	1	3539
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	3	2163; 2865; 2944
AdeI	CACNNN!GTG	2	690; 1279
AfaI	GT!AC	6	65; 148; 298; 550; 769; 2469
AfeI	AGC!GCT	1	14
AfiI	CCNNNNN!NNGG	20	214; 327; 493; 690; 702; 1175; 1501; 1893; 2144; 2688; 2969; 3001; 3133; 3168; 3218; 3250; 3603; 3882; 4048; 4066
AfIII	C!TTAAG	1	1045
AfIII	A!CRYGT	1	4081
AgeI	A!CCGGT	1	84
AgsI	TTS!AA	6	180; 1574; 1618; 1628; 2041; 3617
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	12	278; 326; 422; 1697; 1752; 1769; 2548; 3127; 3230; 3920; 3933; 4054
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	97

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	3	559; 1737; 1809
AlfI	!NNNNNNNNNNNGCANNNNNNTGC	3	525; 1703; 1775
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	2	504; 1245
AloI	!NNNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	472; 1213
AluI	AG!CT	17	36; 42; 117; 290; 597; 800; 942; 1109; 1366; 1661; 1949; 2269; 2727; 3524; 3781; 3827; 3917
AluBI	AG!CT	17	36; 42; 117; 290; 597; 800; 942; 1109; 1366; 1661; 1949; 2269; 2727; 3524; 3781; 3827; 3917
AlwI	GGATCNNNN!	8	86; 2031; 2342; 2588; 2980; 3339; 3437; 3523
AlwI	!NNNNNGATCC	6	73; 638; 2407; 2951; 3338; 3435
Alw21I	GWGCW!C	5	38; 187; 2276; 2466; 3771
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	5	724; 1587; 2005; 3024; 3152
Alw44I	G!TGCAC	2	183; 3767
AlwNI	CAGNNN!CTG	2	3264; 3672
Ama87I	C!YCGRG	2	31; 74
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	14
ApaI	GGGCC!C	1	75
ApaBI	GCANNNNN!TGC	3	1731; 1803; 3265
ApaLI	G!TGCAC	2	183; 3767
ApeKI	G!CWGC	16	302; 446; 744; 939; 1458; 2123; 2224; 2266; 2307; 2400; 2787; 3240; 3466; 3672; 3675; 3740
ApoI	R!AATTY	4	47; 977; 1081; 1092
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2678
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	2472; 3125; 3963
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2562
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	278
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	1991
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	2733
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; 120; 234; 468; 644; 821; 2001; 2005; 2024; 2335; 2413; 2494; 2503; 2581; 2957; 2973; 3332; 3344; 3422; 3430; 3441; 3516
AsiGI	A!CCGGT	1	84
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2281
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	63
AspA2I	C!CTAGG	2	1985; 3000
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	21	15; 1429; 1437; 1463; 1485; 1494; 1507; 1538; 2157; 2165; 2229; 2266; 2532; 2792; 2968; 3054; 3457; 3566; 3740; 3840; 3907
AspS9I	G!GNCC	12	71; 72; 253; 496; 588; 693; 1270; 2679; 3124; 3170; 3228; 3261
AssI	AGT!ACT	1	769
AsuII	TT!CGAA	2	45; 2845
AsuC2I	CC!SGG	7	75; 76; 677; 2167; 2327; 2940; 3704
AsuHPI	GGTGANNNNNNNN!	4	115; 489; 3234; 3350
AsuHPI	!NNNNNNNTCACC	4	114; 378; 1280; 2341
AsuNHI	G!CTAGC	0	
AvaI	C!YCGRG	2	31; 74
AvaII	G!GWCC	3	693; 2679; 3124
AviII	TGC!GCA	1	2265
AvrII	C!CTAGG	2	1985; 3000
AxyI	CC!TNAGG	3	362; 1643; 3275

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	GKGCMI:C	8	75; 160; 187; 220; 797; 2109; 2202; 3771
BalI	TGG!CCA	3	581; 763; 2245
BamHI	G!GATCC	1	78
BanI	G!GYRCC	6	63; 157; 217; 1316; 2162; 2197
BanII	GRGCY!C	5	38; 75; 1354; 2528; 3238
BanIII	AT!CGAT	1	2003
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	2	690; 702
BauI	C!ACGAG	3	748; 2881; 3908
BauI	C!TCGTG	2	598; 2755
BbeI	GGCGC!C	1	2166
Bbr7I	GAAGACNNNNNN!	1	409
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	404
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1733; 1805; 2568
BbvI	GCAGCNNNNNNN!	8	314; 756; 951; 2236; 2278; 2799; 3252; 3752
BbvI	!NNNNNNNNNNNGCTGC	7	433; 1445; 2110; 2294; 2387; 3453; 3659
Bbv12I	GWGCW!C	5	38; 187; 2276; 2466; 3771
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	495; 1293; 1857; 2383; 2885
BccI	!NNNNNGATGG	5	579; 747; 1261; 2041; 2469
BceAI	ACGGCNNNNNNNNNN!	5	315; 459; 510; 2589; 3076
BceAI	!NNNNNNNNNNNGCCGT	3	1304; 2122; 3581
BceFI	ACGGCNNNNNNNNNN!	5	315; 459; 510; 2589; 3076
BceFI	!NNNNNNNNNNNGCCGT	3	1305; 2123; 3582
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	1592; 2382; 3883
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	119
BcnI	CC!SGG	7	75; 76; 677; 2167; 2327; 2940; 3704
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	1	4016
BdaI	!NNNNNNNNNTGANNNNNTCA	1	3982
BfaI	C!TAG	9	10; 782; 818; 1012; 1430; 1986; 3001; 3335; 3588
BfiI	ACTGGGNNNNN!	2	799; 2112
BfiI	!NNNCCCAGT	1	1864
BfmI	C!TRYAG	4	52; 1498; 3625; 3816
BfoI	RGCGC!Y	5	16; 1430; 1438; 2166; 3841
BfrI	C!TTAAG	1	1045
BfuI	GTATCCNNNNN!	3	1592; 2382; 3883
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	623; 2431; 2881
BfuAI	!NNNNNNNGCAGGT	1	2050
BfuCI	!GATC	23	27; 78; 119; 233; 467; 643; 820; 2000; 2004; 2023; 2334; 2412; 2493; 2502; 2580; 2956; 2972; 3331; 3343; 3421; 3429; 3440; 3515
BglI	GCCNNNN!NGGC	2	572; 1938
BglII	A!GATCT	1	27
BisI	GC!NGC	35	252; 303; 447; 564; 745; 807; 810; 940; 1459; 1481; 1495; 1933; 2072; 2124; 2135; 2225; 2230; 2267; 2308; 2395; 2398; 2401; 2637; 2733; 2774; 2788; 2902; 3241; 3256; 3467; 3673; 3676; 3741; 3884; 4039

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BlnI	C!CTAGG	2	1985; 3000
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	35	253; 304; 448; 565; 746; 808; 811; 941; 1460; 1482; 1496; 1934; 2073; 2125; 2136; 2226; 2231; 2268; 2309; 2396; 2399; 2402; 2638; 2734; 2775; 2789; 2903; 3242; 3257; 3468; 3674; 3677; 3742; 3885; 4040
BmcAI	AGT!ACT	1	769
Bme18I	G!GWCC	3	693; 2679; 3124
Bme1390I	CC!NGG	19	75; 76; 280; 328; 424; 677; 1699; 1754; 1771; 2167; 2327; 2550; 2940; 3129; 3232; 3704; 3922; 3935; 4056
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	31; 74
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	12	72; 73; 254; 497; 589; 694; 1271; 2680; 3125; 3171; 3229; 3262
BmiI	GGN!NCC	18	65; 73; 80; 159; 219; 1318; 1339; 1351; 1542; 1703; 1775; 2164; 2199; 3047; 3126; 3171; 4014; 4053
BmrI	ACTGGGNNNNN!	2	799; 2112
BmrI	!NNNNCCCAGT	1	1864
BmrFI	CC!NGG	19	75; 76; 280; 328; 424; 677; 1699; 1754; 1771; 2167; 2327; 2550; 2940; 3129; 3232; 3704; 3922; 3935; 4056
BmsI	GCATCNNNNN!	7	341; 979; 1742; 1814; 2462; 2526; 2801
BmsI	!NNNNNNNNNGATGC	8	494; 533; 662; 793; 2121; 2376; 2592; 3984
BmtI	GCTAG!C	0	
BmuI	ACTGGGNNNNN!	2	799; 2112
BmuI	!NNNNCCCAGT	1	1864
BoxI	GACNN!NNGTC	1	736
BpiI	GAAGACNN!	1	404
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	1952; 2851
BpI	!NNNNNNNNGAGNNNNNCTC	2	1920; 2819
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3003
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	421; 2946
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	45; 2845
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	404
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3457; 3996
BpuEI	!NNNNNNNNNNNNNCTCAAG	5	22; 613; 652; 2539; 3698
BpuMI	CC!SGG	7	75; 76; 677; 2167; 2327; 2940; 3704
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	724; 3152
Bsa29I	AT!CGAT	1	2003
BsaAI	YAC!GTR	2	1279; 2467
BsaBI	GATNN!NNATC	2	825; 2022
BsaHI	GR!CGYC	3	2163; 2865; 2944
BsaJI	C!CNNGG	22	67; 74; 95; 191; 326; 327; 422; 576; 1697; 1769; 1892; 1927; 1936; 1985; 2326; 2595; 3000; 3127; 3128; 3230; 3231; 3921
BsaMI	GAATGCN!	1	914
BsaMI	G!CATTC	1	1007
BsaWI	W!CCGGW	6	18; 84; 2194; 3038; 3728; 3875
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1243
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1213
BsbI	CAACACNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	1164; 3071
Bsc4I	CCNNNNN!NNGG	20	214; 327; 493; 690; 702; 1175; 1501; 1893; 2144; 2688; 2969; 3001; 3133; 3168; 3218; 3250; 3603; 3882; 4048; 4066
BscAI	GCATCNNNN!	7	340; 978; 1741; 1813; 2461; 2525; 2800
BscAI	!NNNNNGATGC	8	497; 536; 665; 796; 2124; 2379; 2595; 3987
Bse1I	ACTGGN!	5	707; 794; 2107; 2308; 3554

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BseI	C!CAGT	4	1192; 1870; 3666; 3679
Bse8I	GATNN!NNATC	2	825; 2022
Bse21I	CC!TNAGG	3	362; 1643; 3275
Bse118I	R!CCGGY	5	84; 1380; 2482; 2663; 2946
BseAI	T!CCGGA	0	
BseBI	CC!WGG	12	280; 328; 424; 1699; 1754; 1771; 2550; 3129; 3232; 3922; 3935; 4056
BseCI	AT!CGAT	1	2003
BseDI	C!CNNGG	22	67; 74; 95; 191; 326; 327; 422; 576; 1697; 1769; 1892; 1927; 1936; 1985; 2326; 2595; 3000; 3127; 3128; 3230; 3231; 3921
Bse3DI	GCAATGNN!	1	2396
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2023; 2480; 2505; 2959
BseGI	!CATCC	5	187; 275; 332; 487; 1849
BseJI	GATNN!NNATC	2	825; 2022
BseLI	CCNNNNN!NNGG	20	214; 327; 493; 690; 702; 1175; 1501; 1893; 2144; 2688; 2969; 3001; 3133; 3168; 3218; 3250; 3603; 3882; 4048; 4066
BseMI	GCAATGNN!	1	2396
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	38; 3289
BseMII	!NNNNNNNNCTGAG	7	353; 559; 1634; 1936; 2817; 3389; 3798
BseNI	ACTGGN!	5	707; 794; 2107; 2308; 3554
BseNI	C!CAGT	4	1192; 1870; 3666; 3679
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	1981
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI:C	8	75; 160; 187; 220; 797; 2109; 2202; 3771
BseXI	GCAGCNNNNNNNN!	8	314; 756; 951; 2236; 2278; 2799; 3252; 3752
BseXI	!NNNNNNNNNNNGCTGC	7	433; 1445; 2110; 2294; 2387; 3453; 3659
BseX3I	C!GGCCG	2	807; 2069
BseYI	C!CCAGC	3	1706; 1778; 3777
BseYI	G!CTGGG	2	524; 2667
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	601
Bsh1236I	CG!CG	15	69; 812; 1087; 1463; 1483; 1507; 1538; 2229; 2530; 2968; 3052; 3115; 3184; 3457; 4038
Bsh1285I	CGRY!CG	4	89; 810; 2072; 3747
BshFI	GG!CC	28	73; 254; 497; 532; 566; 575; 581; 589; 721; 763; 809; 1129; 1271; 1926; 1932; 1941; 1984; 2071; 2245; 2636; 2663; 3172; 3229; 3262; 3607; 4041; 4059; 4070
BshNI	G!GYRCC	6	63; 157; 217; 1316; 2162; 2197
BshTI	A!CCGGT	1	84
BshVI	AT!CGAT	1	2003
BsiEI	CGRY!CG	4	89; 810; 2072; 3747
BsiHKAI	GWGCW!C	5	38; 187; 2276; 2466; 3771
BsiHKCI	C!YCGRG	2	31; 74
BsiSI	C!CGG	20	19; 75; 85; 677; 1381; 2068; 2145; 2167; 2195; 2326; 2416; 2483; 2664; 2939; 2947; 3039; 3513; 3703; 3729; 3876
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	20	214; 327; 493; 690; 702; 1175; 1501; 1893; 2144; 2688; 2969; 3001; 3133; 3168; 3218; 3250; 3603; 3882; 4048; 4066
BsIFI	GGGACNNNNNNNNNN!	3	2314; 2846; 2955
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1679; 1751; 1815; 3110
BsmI	GAATGCN!	1	914
BsmI	G!CATTC	1	1007
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	5	724; 1587; 2005; 3024; 3152
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2314; 2846; 2955
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1679; 1751; 1815; 3110
BsnI	GG!CC	28	73; 254; 497; 532; 566; 575; 581; 589; 721; 763; 809; 1129; 1271; 1926; 1932; 1941; 1984; 2071; 2245; 2636; 2663; 3172; 3229; 3262; 3607; 4041; 4059; 4070
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	724; 3152

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BsoBI	C!YCGRG	2	31; 74
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	95; 576; 1892; 2595
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	2966
Bsp24I	!NNNNNNCCANNNNNGTC	2	3387; 3565
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3419; 3597
Bsp24I	!NNNNNNNGACNNNNNTGG	1	2934
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	45; 2845
Bsp120I	G!GGCCC	1	71
Bsp143I	!GATC	23	27; 78; 119; 233; 467; 643; 820; 2000; 2004; 2023; 2334; 2412; 2493; 2502; 2580; 2956; 2972; 3331; 3343; 3421; 3429; 3440; 3515
Bsp1286I	GDGCH!C	14	38; 75; 160; 187; 220; 797; 1354; 2109; 2202; 2276; 2466; 2528; 3238; 3771
Bsp1407I	T!GTACA	1	146
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	29	67; 416; 554; 656; 810; 1478; 1481; 1495; 1585; 1833; 1845; 1854; 1866; 1876; 1887; 1933; 2072; 2135; 2637; 2682; 2748; 2774; 2899; 2902; 3050; 3182; 3489; 3633; 4129
BspACI	G!CGG	25	69; 251; 563; 605; 806; 1423; 1450; 1538; 1648; 2229; 2293; 2394; 2397; 2677; 2732; 2830; 2968; 3115; 3255; 3498; 3743; 3864; 3883; 4010; 4038
BspCNI	CTCAGNNNNNNNN!	2	37; 3288
BspCNI	!NNNNNNNCTGAG	7	354; 560; 1635; 1937; 2818; 3390; 3799
BspDI	AT!CGAT	1	2003
BspD6I	GA CTNNNN!	5	30; 822; 1236; 2842; 3719
BspD6I	!NNNNNGAGTC	2	1199; 1631
BspEI	T!CCGGA	0	
BspFNI	CG!CG	15	69; 812; 1087; 1463; 1483; 1507; 1538; 2229; 2530; 2968; 3052; 3115; 3184; 3457; 4038
BspHI	T!CATGA	2	1589; 3361
BspLI	GGN!NCC	18	65; 73; 80; 159; 219; 1318; 1339; 1351; 1542; 1703; 1775; 2164; 2199; 3047; 3126; 3171; 4014; 4053
BspMI	ACCTGCNNNN!	3	623; 2431; 2881
BspMI	!NNNNNNNGCAGGT	1	2050
BspOI	GCTAG!C	0	
BspPI	GGATCNNNN!	8	86; 2031; 2342; 2588; 2980; 3339; 3437; 3523
BspPI	!NNNNNGATCC	6	73; 638; 2407; 2951; 3338; 3435
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	2507; 2717
BspTI	C!TTAAG	1	1045
BspT104I	TT!CGAA	2	45; 2845
BspT107I	G!GYRCC	6	63; 157; 217; 1316; 2162; 2197
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	724; 3152
BsrI	ACTGGN!	5	707; 794; 2107; 2308; 3554
BsrI	C!CAGT	4	1192; 1870; 3666; 3679
BsrBI	CCG!CTC	2	1587; 2776
BsrBI	GAG!CGG	2	1423; 2830
BsrDI	GCAATGNN!	1	2396
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	84; 1380; 2482; 2663; 2946
BsrGI	T!GTACA	1	146
BsrSI	ACTGGN!	5	707; 794; 2107; 2308; 3554
BsrSI	C!CAGT	4	1192; 1870; 3666; 3679
BssAI	R!CCGGY	5	84; 1380; 2482; 2663; 2946
BssECI	C!CNNGG	22	67; 74; 95; 191; 326; 327; 422; 576; 1697; 1769; 1892; 1927; 1936; 1985; 2326; 2595; 3000; 3127; 3128; 3230; 3231; 3921
BssHII	G!CGCGC	0	
BssKI	!CCNGG	19	73; 74; 278; 326; 422; 675; 1697; 1752; 1769; 2165; 2325; 2548; 2938; 3127; 3230; 3702; 3920; 3933; 4054
BssMI	!GATC	23	27; 78; 119; 233; 467; 643; 820; 2000; 2004; 2023; 2334; 2412; 2493; 2502; 2580; 2956; 2972; 3331; 3343; 3421; 3429; 3440; 3515
BssNI	GR!CGYC	3	2163; 2865; 2944

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	748; 2881; 3908
BssSI	C!TCGTG	2	598; 2755
BssTII	C!CWWGG	6	95; 576; 1892; 1985; 2595; 3000
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	1630; 2507; 2717
Bst98I	C!TTAAG	1	1045
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	3	2163; 2865; 2944
BstAFI	C!TTAAG	1	1045
BstAPI	GCANNNN!NTGC	3	1730; 1802; 3264
BstAUI	T!GTACA	1	146
BstBI	TT!CGAA	2	45; 2845
Bst2BI	C!ACGAG	3	748; 2881; 3908
Bst2BI	C!TCGTG	2	598; 2755
BstBAI	YAC!GTR	2	1279; 2467
Bst4CI	ACN!GT	11	63; 146; 162; 1254; 2543; 2659; 2767; 3090; 3581; 4051; 4122
BstC8I	GCN!NGC	30	71; 115; 205; 409; 534; 1382; 1425; 1439; 1712; 1731; 1784; 1803; 2057; 2243; 2462; 2528; 2534; 2562; 2566; 2607; 2611; 2665; 2948; 3135; 3182; 3238; 3260; 3471; 4031; 4068
BstDEI	C!TNAG	10	24; 362; 568; 659; 1643; 1945; 2826; 3275; 3398; 3807
BstDSI	C!CRYGG	5	67; 95; 576; 1892; 2595
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2023; 2480; 2505; 2959
BstF5I	!CATCC	5	187; 275; 332; 487; 1849
BstFNI	CG!CG	15	69; 812; 1087; 1463; 1483; 1507; 1538; 2229; 2530; 2968; 3052; 3115; 3184; 3457; 4038
BstH2I	RGCGC!Y	5	16; 1430; 1438; 2166; 3841
BstHHI	GCG!C	21	15; 1429; 1437; 1463; 1485; 1494; 1507; 1538; 2157; 2165; 2229; 2266; 2532; 2792; 2968; 3054; 3457; 3566; 3740; 3840; 3907
BstKTI	GAT!C	23	30; 81; 122; 236; 470; 646; 823; 2003; 2007; 2026; 2337; 2415; 2496; 2505; 2583; 2959; 2975; 3334; 3346; 3424; 3432; 3443; 3518
BstMAI	GTCTCN!	0	
BstMAI	!NNNNNGAGAC	5	724; 1587; 2005; 3024; 3152
BstMBI	!GATC	23	27; 78; 119; 233; 467; 643; 820; 2000; 2004; 2023; 2334; 2412; 2493; 2502; 2580; 2956; 2972; 3331; 3343; 3421; 3429; 3440; 3515
BstMCI	CGRY!CG	4	89; 810; 2072; 3747
BstMWI	GCNNNNN!NNGC	21	572; 806; 1390; 1420; 1447; 1489; 1730; 1802; 1853; 1932; 2154; 2238; 2261; 2400; 2523; 2606; 2873; 3060; 3264; 3463; 4035
BstNI	CC!WGG	12	280; 328; 424; 1699; 1754; 1771; 2550; 3129; 3232; 3922; 3935; 4056
BstNSI	RCATG!Y	5	135; 1733; 1805; 2568; 4085
BstOI	CC!WGG	12	280; 328; 424; 1699; 1754; 1771; 2550; 3129; 3232; 3922; 3935; 4056
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	736
BstSCI	!CCNGG	19	73; 74; 278; 326; 422; 675; 1697; 1752; 1769; 2165; 2325; 2548; 2938; 3127; 3230; 3702; 3920; 3933; 4054
BstSFI	C!TRYAG	4	52; 1498; 3625; 3816
BstSLI	GKGC M!C	8	75; 160; 187; 220; 797; 2109; 2202; 3771
BstSNI	TAC!GTA	0	
BstUI	CG!CG	15	69; 812; 1087; 1463; 1483; 1507; 1538; 2229; 2530; 2968; 3052; 3115; 3184; 3457; 4038
Bst2UI	CC!WGG	12	280; 328; 424; 1699; 1754; 1771; 2550; 3129; 3232; 3922; 3935; 4056
BstV1I	GCAGC NNNNNNN!	8	314; 756; 951; 2236; 2278; 2799; 3252; 3752
BstV1I	!NNNNNNNNNNNGCTGC	7	433; 1445; 2110; 2294; 2387; 3453; 3659
BstV2I	GAAGACNN!	1	404
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	1	99
BstX2I	R!GATCY	10	27; 78; 643; 2334; 2580; 2972; 3331; 3343; 3429; 3440
BstYI	R!GATCY	10	27; 78; 643; 2334; 2580; 2972; 3331; 3343; 3429; 3440

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstZI	C!GGCCG	2	807; 2069
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1592; 2382; 3883
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2003
Bsu36I	CC!TNAGG	3	362; 1643; 3275
BsuRI	GG!CC	28	73; 254; 497; 532; 566; 575; 581; 589; 721; 763; 809; 1129; 1271; 1926; 1932; 1941; 1984; 2071; 2245; 2636; 2663; 3172; 3229; 3262; 3607; 4041; 4059; 4070
BsuTUI	AT!CGAT	1	2003
BtgI	C!CRYGG	5	67; 95; 576; 1892; 2595
BtgZI	GCGATGNNNNNNNNNN!	2	1280; 2615
BtgZI	!NNNNNNNNNNNNNNNNCATCGC	2	2434; 2778
BthCI	GCNG!C	35	254; 305; 449; 566; 747; 809; 812; 942; 1461; 1483; 1497; 1935; 2074; 2126; 2137; 2227; 2232; 2269; 2310; 2397; 2400; 2403; 2639; 2735; 2776; 2790; 2904; 3243; 3258; 3469; 3675; 3678; 3743; 3886; 4041
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	618; 1002
BtsCI	GGATGNN!	4	2023; 2480; 2505; 2959
BtsCI	!CATCC	5	187; 275; 332; 487; 1849
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	623; 2431; 2881
BveI	!NNNNNNNNGCAGGT	1	2050
Cac8I	GCN!NGC	30	71; 115; 205; 409; 534; 1382; 1425; 1439; 1712; 1731; 1784; 1803; 2057; 2243; 2462; 2528; 2534; 2562; 2566; 2607; 2611; 2665; 2948; 3135; 3182; 3238; 3260; 3471; 4031; 4068
CaiI	CAGNNN!CTG	2	3264; 3672
CciI	T!CATGA	2	1589; 3361
CciNI	GC!GGCCGC	1	807
CdiI	CATC!G	4	2452; 2457; 2655; 2796
CdiI	C!GATG	2	1266; 2601
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4035
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	2	1824; 1866
CelII	GC!TNAGC	0	
CfoI	GCG!C	21	15; 1429; 1437; 1463; 1485; 1494; 1507; 1538; 2157; 2165; 2229; 2266; 2532; 2792; 2968; 3054; 3457; 3566; 3740; 3840; 3907
CfrI	Y!GGCCR	7	579; 761; 807; 2069; 2243; 2634; 2661
Cfr9I	C!CCGGG	1	74
Cfr10I	R!CCGGY	5	84; 1380; 2482; 2663; 2946
Cfr13I	G!GNCC	12	71; 72; 253; 496; 588; 693; 1270; 2679; 3124; 3170; 3228; 3261
Cfr42I	CCGC!GG	1	70
ChaI	GATC!	23	31; 82; 123; 237; 471; 647; 824; 2004; 2008; 2027; 2338; 2416; 2497; 2506; 2584; 2960; 2976; 3335; 3347; 3425; 3433; 3444; 3519
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	6	120; 199; 1980; 3420; 3520; 3598
CjeI	!NNNNNNNNNACNNNNNNNTGG	6	134; 1647; 1742; 2934; 3484; 4039
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	6	168; 1681; 1776; 2968; 3518; 4073
CjeI	!NNNNNNNNCCANNNNNNNGT	6	86; 165; 1946; 3386; 3486; 3564
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	3420; 3598
CjePI	!NNNNNNNNGANNNNNNNNTGG	3	561; 2934; 3533
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	594; 2967; 3566
CjePI	!NNNNNNNCCANNNNNNNNTC	2	3387; 3565
Clal	AT!CGAT	1	2003
CpoI	CG!GWCCG	1	2679
CseI	GACGCNNNNN!	2	2873; 2952
CseI	!NNNNNNNNNNGCGTC	3	1496; 3391; 3969
CsiI	A!CCWGGT	1	1752
CspI	CG!GWCCG	1	2679
Csp6I	G!TAC	6	64; 147; 297; 549; 768; 2468
Csp45I	TT!CGAA	2	45; 2845
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!	3	740; 1443; 3052
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	21	96; 132; 138; 150; 228; 294; 374; 577; 1590; 1730; 1802; 1893; 2034; 2379; 2565; 2596; 2622; 2978; 3362; 4082; 4133
CviJI	RG!CY	93	36; 42; 73; 117; 207; 254; 283; 290; 310; 368; 434; 446; 497; 524; 532; 566; 575; 581; 589; 597; 611; 680; 721; 757; 763; 800; 809; 832; 942; 1109; 1129; 1271; 1352; 1366; 1380; 1661; 1702; 1774; 1897; 1926; 1932; 1941; 1949; 1972; 1984; 1990; 2071; 2088; 2096; 2123; 2148; 2232; 2241; 2245; 2269; 2307; 2383; 2400; 2419; 2482; 2526; 2536; 2553; 2636; 2663; 2667; 2704; 2727; 2743; 2923; 2950; 3011; 3133; 3172; 3229; 3236; 3243; 3262; 3273; 3524; 3553; 3596; 3607; 3672; 3751; 3776; 3781; 3827; 3917; 4015; 4041; 4059; 4070
CviKI-1	RG!CY	93	36; 42; 73; 117; 207; 254; 283; 290; 310; 368; 434; 446; 497; 524; 532; 566; 575; 581; 589; 597; 611; 680; 721; 757; 763; 800; 809; 832; 942; 1109; 1129; 1271; 1352; 1366; 1380; 1661; 1702; 1774; 1897; 1926; 1932; 1941; 1949; 1972; 1984; 1990; 2071; 2088; 2096; 2123; 2148; 2232; 2241; 2245; 2269; 2307; 2383; 2400; 2419; 2482; 2526; 2536; 2553; 2636; 2663; 2667; 2704; 2727; 2743; 2923; 2950; 3011; 3133; 3172; 3229; 3236; 3243; 3262; 3273; 3524; 3553; 3596; 3607; 3672; 3751; 3776; 3781; 3827; 3917; 4015; 4041; 4059; 4070
CviQI	G!TAC	6	64; 147; 297; 549; 768; 2468
DdeI	C!TNAG	10	24; 362; 568; 659; 1643; 1945; 2826; 3275; 3398; 3807
DinI	GGC!GCC	1	2164
DpnI	GA!TC	23	29; 80; 121; 235; 469; 645; 822; 2002; 2006; 2025; 2336; 2414; 2495; 2504; 2582; 2958; 2974; 3333; 3345; 3423; 3431; 3442; 3517
DpnII	!GATC	23	27; 78; 119; 233; 467; 643; 820; 2000; 2004; 2023; 2334; 2412; 2493; 2502; 2580; 2956; 2972; 3331; 3343; 3421; 3429; 3440; 3515
DraI	TTT!AAA	3	865; 3307; 3326
DraII	RG!GNCCY	1	3261
DraIII	CACNNN!GTG	2	690; 1279
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	791; 3643
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	3	1234; 2190; 3979
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1234; 2190; 3979
EaeI	Y!GGCCR	7	579; 761; 807; 2069; 2243; 2634; 2661
EagI	C!GGCCG	2	807; 2069
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	1630; 2507; 2717
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	1630; 2507; 2717
EciI	GGCGGANNNNNNNNNNNN!	4	1663; 2692; 3879; 4025
EciI	!NNNNNNNNNTCCGCC	3	1834; 1855; 1876
Ecl136II	GAG!CTC	1	36
EclXI	C!GGCCG	2	807; 2069
Eco24I	GRGCY!C	5	38; 75; 1354; 2528; 3238
Eco31I	GGTTCN!	0	
Eco31I	!NNNNGAGACC	2	724; 3152
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	693; 2679; 3124
Eco47III	AGC!GCT	1	14
Eco52I	C!GGCCG	2	807; 2069
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	613; 2309; 2741
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	1	3539
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	362; 1643; 3275

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!CWVGG	6	95; 576; 1892; 1985; 2595; 3000
Eco147I	AGG!CCT	1	1984
EcoHI	!CCSGG	7	73; 74; 675; 2165; 2325; 2938; 3702
EcoICRI	GAG!CTC	1	36
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	4	613; 2309; 2741; 3003
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	3	421; 2946; 3539
EcoNI	CCTNN!NNNAGG	0	
EcoO65I	G!GTNACC	0	
EcoO109I	RG!GNCCY	1	3261
EcoRI	G!AATTC	1	47
EcoRII	!CCWGG	12	278; 326; 422; 1697; 1752; 1769; 2548; 3127; 3230; 3920; 3933; 4054
EcoRV	GAT!ATC	0	
EcoT14I	C!CWVGG	6	95; 576; 1892; 1985; 2595; 3000
EcoT22I	ATGCA!T	3	1735; 1807; 4138
EcoT38I	GRGCY!C	5	38; 75; 1354; 2528; 3238
Eco53kl	GAG!CTC	1	36
EgeI	GGC!GCC	1	2164
EheI	GGC!GCC	1	2164
ErhI	C!CWVGG	6	95; 576; 1892; 1985; 2595; 3000
EsaBC3I	TC!GA	17	33; 46; 59; 246; 273; 741; 1313; 2004; 2277; 2433; 2457; 2493; 2655; 2846; 2891; 3146; 3984
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	21	99; 135; 141; 153; 231; 297; 377; 580; 1593; 1733; 1805; 1896; 2037; 2382; 2568; 2599; 2625; 2981; 3365; 4085; 4136
Fail	YA!TR	47	97; 133; 139; 151; 229; 295; 375; 393; 578; 639; 825; 835; 901; 946; 1151; 1579; 1591; 1722; 1731; 1794; 1803; 1827; 1894; 1918; 2035; 2099; 2380; 2405; 2566; 2597; 2623; 2695; 2911; 2979; 3057; 3109; 3270; 3287; 3289; 3291; 3363; 3641; 3830; 3946; 4019; 4083; 4134
Fall	AAGNNNNNCTNNNNNNNNNNNN!	2	372; 2503
Fall	!NNNNNNNNNAAGNNNNNCTT	2	340; 2471
FaqI	GGGACNNNNNNNNNN!	3	2314; 2846; 2955
FaqI	!NNNNNNNNNNNNNGTCCC	4	1679; 1751; 1815; 3110
FatI	!CATG	21	95; 131; 137; 149; 227; 293; 373; 576; 1589; 1729; 1801; 1892; 2033; 2378; 2564; 2595; 2621; 2977; 3361; 4081; 4132
FauI	CCCGCNNNN!	7	561; 663; 1485; 1840; 1861; 3057; 3189
FauI	!NNNNNNNGCGGG	7	62; 598; 1416; 2286; 2823; 2961; 3108
FauNDI	CA!TATG	0	
FbaI	T!GATCA	1	119
FblI	GT!MKAC	1	58
FmuI	GGNC!C	12	74; 75; 256; 499; 591; 696; 1273; 2682; 3127; 3173; 3231; 3264
Fnu4HI	GC!NGC	35	252; 303; 447; 564; 745; 807; 810; 940; 1459; 1481; 1495; 1933; 2072; 2124; 2135; 2225; 2230; 2267; 2308; 2395; 2398; 2401; 2637; 2733; 2774; 2788; 2902; 3241; 3256; 3467; 3673; 3676; 3741; 3884; 4039
FokI	GGATGNNNNNNNN!	4	2030; 2487; 2512; 2966
FokI	!NNNNNNNNNNNNNCATCC	5	174; 262; 319; 474; 1836
FriOI	GRGCY!C	5	38; 75; 1354; 2528; 3238
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2265
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	10; 782; 818; 1012; 1430; 1986; 3001; 3335; 3588

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	138	32; 80; 95; 138; 174; 204; 221; 235; 268; 282; 300; 324; 339; 369; 402; 429; 444; 463; 499; 546; 565; 580; 595; 628; 648; 668; 689; 709; 735; 777; 793; 823; 846; 885; 899; 1040; 1135; 1159; 1182; 1205; 1223; 1245; 1266; 1285; 1304; 1333; 1354; 1368; 1394; 1482; 1508; 1557; 1598; 1616; 1655; 1671; 1709; 1766; 1781; 1838; 1858; 1872; 1889; 1903; 1940; 1955; 1998; 2081; 2148; 2179; 2199; 2214; 2259; 2273; 2339; 2353; 2372; 2388; 2429; 2449; 2496; 2546; 2562; 2582; 2607; 2627; 2650; 2677; 2695; 2721; 2761; 2787; 2811; 2867; 2881; 2909; 2952; 2973; 3008; 3052; 3140; 3164; 3186; 3206; 3222; 3243; 3257; 3276; 3360; 3380; 3408; 3423; 3457; 3499; 3526; 3541; 3586; 3610; 3624; 3646; 3672; 3692; 3716; 3742; 3790; 3809; 3828; 3854; 3889; 3934; 3964; 3978; 4029; 4043; 4068; 4084; 4105; 4134
FspEI	!NNNNNNNNNNNNNNNGG	112	4; 46; 70; 91; 136; 178; 199; 223; 265; 284; 313; 349; 386; 409; 428; 458; 479; 506; 548; 571; 590; 662; 688; 739; 775; 834; 934; 1003; 1033; 1111; 1160; 1182; 1210; 1246; 1291; 1320; 1356; 1375; 1403; 1423; 1486; 1509; 1617; 1649; 1667; 1696; 1739; 1768; 1879; 1908; 1951; 1972; 2000; 2033; 2053; 2078; 2105; 2130; 2152; 2180; 2206; 2227; 2278; 2299; 2317; 2365; 2401; 2457; 2482; 2506; 2535; 2558; 2582; 2608; 2630; 2649; 2674; 2714; 2750; 2815; 2900; 2924; 2953; 2987; 3008; 3028; 3073; 3100; 3119; 3152; 3204; 3235; 3262; 3314; 3412; 3483; 3528; 3589; 3654; 3688; 3714; 3732; 3768; 3838; 3861; 3883; 3907; 3940; 3988; 4023; 4041; 4098
Fsp4HI	GC!NGC	35	252; 303; 447; 564; 745; 807; 810; 940; 1459; 1481; 1495; 1933; 2072; 2124; 2135; 2225; 2230; 2267; 2308; 2395; 2398; 2401; 2637; 2733; 2774; 2788; 2902; 3241; 3256; 3467; 3673; 3676; 3741; 3884; 4039
GdiII	C!GGCCR	2	807; 2069
GdiII	Y!GGCCG	4	807; 2069; 2634; 2661
GlaI	GC!GC	21	14; 1428; 1436; 1462; 1484; 1493; 1506; 1537; 2156; 2164; 2228; 2265; 2531; 2791; 2967; 3053; 3456; 3565; 3739; 3839; 3906
Glul	GC!NGC	35	252; 303; 447; 564; 745; 807; 810; 940; 1459; 1481; 1495; 1933; 2072; 2124; 2135; 2225; 2230; 2267; 2308; 2395; 2398; 2401; 2637; 2733; 2774; 2788; 2902; 3241; 3256; 3467; 3673; 3676; 3741; 3884; 4039
GsaI	CCCAG!C	3	1710; 1782; 3781
GsaI	GCTGG!G	2	528; 2671
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3003
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	421; 2946
HaeI	WGG!CCW	9	532; 575; 581; 763; 1984; 2245; 3607; 4059; 4070
HaeII	RGCGC!Y	5	16; 1430; 1438; 2166; 3841
HaeIII	GG!CC	28	73; 254; 497; 532; 566; 575; 581; 589; 721; 763; 809; 1129; 1271; 1926; 1932; 1941; 1984; 2071; 2245; 2636; 2663; 3172; 3229; 3262; 3607; 4041; 4059; 4070
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	838; 2359
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	804; 2325
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	837; 2358
HaeIV	!NNNNNNNGAYNNNNNNRTC	2	806; 2327
HapII	C!CGG	20	19; 75; 85; 677; 1381; 2068; 2145; 2167; 2195; 2326; 2416; 2483; 2664; 2939; 2947; 3039; 3513; 3703; 3729; 3876
HgaI	GACGCNNNNN!	2	2873; 2952
HgaI	!NNNNNNNNNNNGCGTC	3	1496; 3391; 3969
HhaI	GCG!C	21	15; 1429; 1437; 1463; 1485; 1494; 1507; 1538; 2157; 2165; 2229; 2266; 2532; 2792; 2968; 3054; 3457; 3566; 3740; 3840; 3907
Hin1I	GR!CGYC	3	2163; 2865; 2944
Hin1III	CATG!	21	99; 135; 141; 153; 231; 297; 377; 580; 1593; 1733; 1805; 1896; 2037; 2382; 2568; 2599; 2625; 2981; 3365; 4085; 4136
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	2	837; 2358
Hin4I	!NNNNNNNNNGABNNNNNNRTC	3	805; 2326; 2356
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	3	837; 2358; 2388
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	805; 2326
Hin6I	G!CGC	21	13; 1427; 1435; 1461; 1483; 1492; 1505; 1536; 2155; 2163; 2227; 2264; 2530; 2790; 2966; 3052; 3455; 3564; 3738; 3838; 3905

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HinP1I	G!CGC	21	13; 1427; 1435; 1461; 1483; 1492; 1505; 1536; 2155; 2163; 2227; 2264; 2530; 2790; 2966; 3052; 3455; 3564; 3738; 3838; 3905
HincII	GTY!RAC	2	59; 926
HindII	GTY!RAC	2	59; 926
HindIII	A!AGCTT	1	40
HinfI	G!ANTC	14	22; 383; 710; 814; 1206; 1228; 1638; 2648; 2782; 2834; 2892; 2929; 3711; 4107
HpaI	GTT!AAC	1	926
HpaII	C!CGG	20	19; 75; 85; 677; 1381; 2068; 2145; 2167; 2195; 2326; 2416; 2483; 2664; 2939; 2947; 3039; 3513; 3703; 3729; 3876
HphI	GGTGANNNNNNNN!	4	115; 489; 3234; 3350
HphI	!NNNNNNNTCACC	4	114; 378; 1280; 2341
Hpy8I	GTN!NAC	10	59; 165; 185; 480; 693; 926; 1210; 1227; 1282; 3769
Hpy99I	CGWCG!	9	63; 742; 2253; 2281; 2575; 2590; 2867; 3252; 3985
Hpy166II	GTN!NAC	10	59; 165; 185; 480; 693; 926; 1210; 1227; 1282; 3769
Hpy188I	TCN!GA	12	27; 192; 1337; 1946; 2130; 2474; 2827; 2928; 3407; 3541; 3894; 3972
Hpy188III	TC!NNGA	25	31; 438; 465; 630; 669; 818; 1590; 1642; 1955; 2008; 2181; 2497; 2506; 2589; 2645; 2689; 2779; 2812; 2881; 3362; 3436; 3519; 3617; 3715; 3849
HpyAV	CCTTCNNNNNN!	6	273; 321; 366; 2808; 2915; 3594
HpyAV	!NNNNNGAAGG	8	193; 1396; 2291; 3020; 3036; 3219; 3536; 3846
HpyCH4III	ACN!GT	11	63; 146; 162; 1254; 2543; 2659; 2767; 3090; 3581; 4051; 4122
HpyCH4IV	A!CGT	10	461; 737; 1223; 1235; 1278; 1388; 2279; 2466; 3247; 3380
HpyCH4V	TG!CA	21	54; 135; 185; 507; 618; 912; 939; 1007; 1724; 1733; 1796; 1805; 1920; 1996; 2055; 2214; 2389; 2403; 3473; 3769; 4136
HpyF3I	C!TNAG	10	24; 362; 568; 659; 1643; 1945; 2826; 3275; 3398; 3807
HpyF10VI	GCNNNNN!NNGC	21	572; 806; 1390; 1420; 1447; 1489; 1730; 1802; 1853; 1932; 2154; 2238; 2261; 2400; 2523; 2606; 2873; 3060; 3264; 3463; 4035
Hsp92I	GR!CGYC	3	2163; 2865; 2944
Hsp92II	CATG!	21	99; 135; 141; 153; 231; 297; 377; 580; 1593; 1733; 1805; 1896; 2037; 2382; 2568; 2599; 2625; 2981; 3365; 4085; 4136
HspAI	G!CGC	21	13; 1427; 1435; 1461; 1483; 1492; 1505; 1536; 2155; 2163; 2227; 2264; 2530; 2790; 2966; 3052; 3455; 3564; 3738; 3838; 3905
KasI	G!GCGCC	1	2162
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	67
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	70
Ksp22I	T!GATCA	1	119
KspAI	GTT!AAC	1	926
Kzo9I	!GATC	23	27; 78; 119; 233; 467; 643; 820; 2000; 2004; 2023; 2334; 2412; 2493; 2502; 2580; 2956; 2972; 3331; 3343; 3421; 3429; 3440; 3515
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	2507; 2717
LpnI	RG!GCGY	5	14; 1428; 1436; 2164; 3839
LpnPI	CCDGNNNNNNNNN!	58	32; 88; 235; 292; 340; 374; 436; 451; 512; 546; 580; 595; 628; 690; 900; 1205; 1394; 1617; 1655; 1671; 1711; 1766; 1783; 1883; 1968; 2081; 2158; 2180; 2203; 2339; 2353; 2372; 2429; 2496; 2546; 2562; 2619; 2677; 2886; 2952; 2976; 3052; 3141; 3244; 3277; 3508; 3526; 3672; 3692; 3716; 3742; 3791; 3889; 3934; 3964; 4043; 4068; 4105
LpnPI	!NNNNNNNNNNNNNCHGG	50	4; 60; 265; 313; 409; 510; 662; 688; 775; 1246; 1366; 1423; 1486; 1684; 1696; 1756; 1768; 2000; 2045; 2088; 2130; 2152; 2180; 2227; 2289; 2311; 2401; 2468; 2491; 2535; 2630; 2649; 2674; 2823; 2924; 2967; 3024; 3114; 3217; 3244; 3262; 3498; 3535; 3688; 3714; 3854; 3872; 3907; 3988; 4041
Lsp1109I	GCAGCNNNNNNNN!	8	314; 756; 951; 2236; 2278; 2799; 3252; 3752
Lsp1109I	!NNNNNNNNNNNNGCTGC	7	433; 1445; 2110; 2294; 2387; 3453; 3659
LweI	GCATCNNNNN!	7	341; 979; 1742; 1814; 2462; 2526; 2801
LweI	!NNNNNNNNNGATGC	8	494; 533; 662; 793; 2121; 2376; 2592; 3984
MabI	A!CCWGGT	1	1752
MaeI	C!TAG	9	10; 782; 818; 1012; 1430; 1986; 3001; 3335; 3588
MaeII	A!CGT	10	461; 737; 1223; 1235; 1278; 1388; 2279; 2466; 3247; 3380

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaeIII	!GTNAC	9	951; 1452; 1464; 2283; 2589; 3279; 3545; 3661; 3724
MaI	GA!TC	23	29; 80; 121; 235; 469; 645; 822; 2002; 2006; 2025; 2336; 2414; 2495; 2504; 2582; 2958; 2974; 3333; 3345; 3423; 3431; 3442; 3517
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1587; 2776
MbiI	GAG!CGG	2	1423; 2830
MboI	!GATC	23	27; 78; 119; 233; 467; 643; 820; 2000; 2004; 2023; 2334; 2412; 2493; 2502; 2580; 2956; 2972; 3331; 3343; 3421; 3429; 3440; 3515
MboII	GAAGANNNNNNNN!	8	243; 409; 522; 1419; 1647; 2524; 2734; 3353
MboII	!NNNNNNNTCTTC	4	2814; 2981; 3181; 3424
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	913
MflI	R!GATCY	10	27; 78; 643; 2334; 2580; 2972; 3331; 3343; 3429; 3440
MhlI	GDGCH!C	14	38; 75; 160; 187; 220; 797; 1354; 2109; 2202; 2276; 2466; 2528; 3238; 3771
MlsI	TGG!CCA	3	581; 763; 2245
MluI	A!CGCGT	0	
MluNI	TGG!CCA	3	581; 763; 2245
MlyI	GAGTCNNNNN!	2	1215; 1647
MlyI	!NNNNNGACTC	5	16; 808; 1222; 2828; 3705
Mly113I	GG!CGCC	1	2163
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	515; 1256
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	3688; 3872
MnII	CCTCNNNNNNN!	13	266; 445; 460; 637; 676; 787; 882; 1946; 2764; 2970; 3284; 3654; 3978
MnII	!NNNNNNGAGG	21	99; 147; 186; 207; 240; 357; 522; 565; 711; 842; 1307; 1638; 1916; 1959; 1974; 2014; 2078; 2214; 2571; 3001; 3904
Mph1103I	ATGCA!T	3	1735; 1807; 4138
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1380; 2663; 2946
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	3	581; 763; 2245
MseI	T!TAA	15	347; 864; 925; 1046; 1067; 1078; 1090; 1101; 1118; 1216; 1487; 3306; 3320; 3325; 3377
MslI	CAYNN!NNRTG	4	97; 136; 541; 2600
MspI	C!CGG	20	19; 75; 85; 677; 1381; 2068; 2145; 2167; 2195; 2326; 2416; 2483; 2664; 2939; 2947; 3039; 3513; 3703; 3729; 3876
Msp20I	TGG!CCA	3	581; 763; 2245
MspA1I	CMG!CKG	8	69; 556; 563; 800; 1661; 2269; 3498; 3743
MspCI	C!TTAAG	1	1045
MspJI	CNNRRNNNNNNNNN!	215	22; 36; 49; 80; 97; 126; 144; 162; 192; 210; 225; 240; 258; 291; 306; 334; 349; 373; 386; 402; 420; 434; 450; 463; 477; 498; 511; 532; 545; 565; 579; 594; 610; 627; 640; 654; 667; 681; 702; 715; 734; 753; 776; 793; 808; 823; 836; 851; 870; 887; 900; 941; 955; 968; 986; 1024; 1039; 1057; 1098; 1122; 1142; 1160; 1181; 1204; 1236; 1251; 1273; 1291; 1304; 1325; 1342; 1355; 1368; 1384; 1397; 1427; 1442; 1467; 1485; 1498; 1513; 1537; 1551; 1575; 1600; 1616; 1654; 1670; 1709; 1723; 1737; 1765; 1781; 1795; 1809; 1838; 1851; 1872; 1881; 1903; 1933; 1949; 1967; 1997; 2020; 2044; 2068; 2087; 2115; 2141; 2157; 2170; 2193; 2207; 2227; 2240; 2254; 2273; 2287; 2300; 2316; 2331; 2344; 2360; 2375; 2391; 2416; 2435; 2451; 2464; 2477; 2495; 2509; 2523; 2539; 2561; 2577; 2596; 2618; 2634; 2657; 2676; 2690; 2706; 2720; 2740; 2756; 2769; 2791; 2824; 2838; 2858; 2871; 2885; 2939; 2952; 2975; 2988; 3007; 3024; 3051; 3087; 3120; 3139; 3164; 3185; 3212; 3225; 3242; 3256; 3271; 3287; 3347; 3372; 3388; 3410; 3423; 3437; 3468; 3482; 3507; 3525; 3540; 3553; 3572; 3585; 3600; 3629; 3648; 3666; 3691; 3706; 3725; 3741; 3760; 3778; 3794; 3808; 3827; 3854; 3877; 3899; 3918; 3933; 3946; 3963; 3983; 4010; 4023; 4042; 4067; 4090; 4104; 4117; 4134

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	173	5; 25; 54; 71; 91; 112; 136; 166; 190; 208; 232; 251; 273; 313; 334; 360; 380; 409; 451; 485; 506; 526; 553; 577; 601; 634; 655; 674; 700; 722; 745; 768; 791; 815; 844; 873; 915; 998; 1033; 1060; 1083; 1112; 1156; 1178; 1210; 1246; 1263; 1284; 1321; 1341; 1358; 1375; 1410; 1428; 1446; 1463; 1487; 1509; 1536; 1564; 1590; 1628; 1649; 1666; 1684; 1707; 1728; 1756; 1779; 1800; 1818; 1839; 1856; 1879; 1903; 1923; 1941; 1963; 1994; 2016; 2042; 2061; 2078; 2106; 2125; 2144; 2162; 2180; 2201; 2223; 2247; 2280; 2300; 2318; 2339; 2365; 2392; 2409; 2426; 2443; 2469; 2491; 2513; 2531; 2551; 2570; 2592; 2630; 2650; 2674; 2694; 2714; 2741; 2765; 2798; 2817; 2845; 2867; 2896; 2924; 2949; 2968; 2987; 3008; 3025; 3042; 3073; 3100; 3120; 3143; 3163; 3200; 3217; 3236; 3262; 3282; 3321; 3348; 3367; 3385; 3422; 3440; 3481; 3499; 3525; 3542; 3574; 3603; 3631; 3652; 3675; 3694; 3715; 3733; 3750; 3768; 3794; 3815; 3835; 3855; 3873; 3894; 3920; 3937; 3956; 3975; 4004; 4023; 4041; 4060; 4078; 4096; 4119
MspR9I	CC!NGG	19	75; 76; 280; 328; 424; 677; 1699; 1754; 1771; 2167; 2327; 2550; 2940; 3129; 3232; 3704; 3922; 3935; 4056
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	913
MvaI	CC!WGG	12	280; 328; 424; 1699; 1754; 1771; 2550; 3129; 3232; 3922; 3935; 4056
Mva1269I	GAATGCN!	1	914
Mva1269I	G!CATTC	1	1007
MvnI	CG!CG	15	69; 812; 1087; 1463; 1483; 1507; 1538; 2229; 2530; 2968; 3052; 3115; 3184; 3457; 4038
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	21	572; 806; 1390; 1420; 1447; 1489; 1730; 1802; 1853; 1932; 2154; 2238; 2261; 2400; 2523; 2606; 2873; 3060; 3264; 3463; 4035
NaeI	GCC!GGC	3	1382; 2665; 2948
NarI	GG!CGCC	1	2163
NciI	CC!SGG	7	75; 76; 677; 2167; 2327; 2940; 3704
NcoI	C!CATGG	4	95; 576; 1892; 2595
NdeI	CA!TATG	0	
NdeII	!GATC	23	27; 78; 119; 233; 467; 643; 820; 2000; 2004; 2023; 2334; 2412; 2493; 2502; 2580; 2956; 2972; 3331; 3343; 3421; 3429; 3440; 3515
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	224
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	260
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	3	1380; 2663; 2946
NheI	G!CTAGC	0	
NlaIII	CATG!	21	99; 135; 141; 153; 231; 297; 377; 580; 1593; 1733; 1805; 1896; 2037; 2382; 2568; 2599; 2625; 2981; 3365; 4085; 4136
NlaIV	GGN!NCC	18	65; 73; 80; 159; 219; 1318; 1339; 1351; 1542; 1703; 1775; 2164; 2199; 3047; 3126; 3171; 4014; 4053
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	995; 1310; 2902
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	484; 3974
Nli3877I	CYCGR!G	2	35; 78
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	1952; 2388
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	500; 1917
NmeDI	RCCGGYNNNNNNN!	5	96; 1392; 2494; 2675; 2958
NmeDI	!NNNNNNNNNNNNRCCGGY	5	71; 1367; 2469; 2650; 2933
NmuCI	!GTSAC	3	1452; 2283; 2589
NotI	GC!GGCCGC	1	807
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2265
NsiI	ATGCA!T	3	1735; 1807; 4138
NspI	RCATG!Y	5	135; 1733; 1805; 2568; 4085
NspV	TT!CGAA	2	45; 2845
OliI	CACNN!NNGTG	1	97
PabI	GTA!C	6	66; 149; 299; 551; 770; 2470
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1733; 1805; 2568
PaeR7I	C!TCGAG	1	31

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PagI	T!CATGA	2	1589; 3361
PalAI	GG!CGGCC	0	
PasI	CC!CWGGG	3	327; 3128; 3231
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	1984
PciI	A!CATGT	1	4081
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	2507; 2717
PcsI	WCGNNNN!NNNCGW	7	746; 2457; 2534; 2777; 2851; 3244; 3762
PctI	GAATGCN!	1	914
PctI	G!CATTC	1	1007
PdiI	GCC!GGC	3	1382; 2665; 2948
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	383; 710; 2648; 2782; 2892; 2929; 4107
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2281
PfIMI	CCANNNN!NTGG	2	690; 702
PfoI	T!CCNGGA	1	2938
PhoI	GG!CC	28	73; 254; 497; 532; 566; 575; 581; 589; 721; 763; 809; 1129; 1271; 1926; 1932; 1941; 1984; 2071; 2245; 2636; 2663; 3172; 3229; 3262; 3607; 4041; 4059; 4070
PinAI	A!CCGGT	1	84
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	2544
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	781; 2109; 2364
PleI	GAGTCNNNN!	2	1214; 1646
PleI	!NNNNNGACTC	5	16; 808; 1222; 2828; 3705
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1245
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3375
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3407
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1213
PpsI	GAGTCNNNN!	2	1214; 1646
PpsI	!NNNNNGACTC	5	16; 808; 1222; 2828; 3705
Ppu10I	A!TGCAT	3	1731; 1803; 4134
Ppu21I	YAC!GTR	2	1279; 2467
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4081
PshAI	GACNN!NNGTC	1	736
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	2	946; 1151
Psp03I	GGWC!C	3	696; 2682; 3127
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	12	278; 326; 422; 1697; 1752; 1769; 2548; 3127; 3230; 3920; 3933; 4054
Psp1406I	AA!CGTT	0	
Psp124BI	GAGTC!C	1	38
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	12	278; 326; 422; 1697; 1752; 1769; 2548; 3127; 3230; 3920; 3933; 4054
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	18	65; 73; 80; 159; 219; 1318; 1339; 1351; 1542; 1703; 1775; 2164; 2199; 3047; 3126; 3171; 4014; 4053
PspOMI	G!GGCCC	1	71
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	2	1893; 2892
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2295
PspPI	G!GNCC	12	71; 72; 253; 496; 588; 693; 1270; 2679; 3124; 3170; 3228; 3261
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNNNN!	3	1716; 1788; 3294
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	4	348; 776; 1629; 2824
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	3264
PstI	CTGCA!G	1	56
PstNI	CAGNNN!CTG	2	3264; 3672
PsuI	R!GATCY	10	27; 78; 643; 2334; 2580; 2972; 3331; 3343; 3429; 3440
PsyI	GACN!NNGTC	1	2281
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	800; 1661; 2269
RcaI	T!CATGA	2	1589; 3361
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	2678
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNN!	1	892
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	65; 148; 298; 550; 769; 2469
RsaNI	G!TAC	6	64; 147; 297; 549; 768; 2468
RseI	CAYNN!NNRTG	4	97; 136; 541; 2600
RsrII	CG!GWCCG	1	2679
Rsr2I	CG!GWCCG	1	2679
SacI	GAGCT!C	1	38
SacII	CCGC!GG	1	70
SalI	G!TCGAC	1	57
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	2507; 2717
SaqAI	T!TAA	15	347; 864; 925; 1046; 1067; 1078; 1090; 1101; 1118; 1216; 1487; 3306; 3320; 3325; 3377
SatI	GC!NGC	35	252; 303; 447; 564; 745; 807; 810; 940; 1459; 1481; 1495; 1933; 2072; 2124; 2135; 2225; 2230; 2267; 2308; 2395; 2398; 2401; 2637; 2733; 2774; 2788; 2902; 3241; 3256; 3467; 3673; 3676; 3741; 3884; 4039
Sau96I	G!GNCC	12	71; 72; 253; 496; 588; 693; 1270; 2679; 3124; 3170; 3228; 3261
Sau3AI	!GATC	23	27; 78; 119; 233; 467; 643; 820; 2000; 2004; 2023; 2334; 2412; 2493; 2502; 2580; 2956; 2972; 3331; 3343; 3421; 3429; 3440; 3515
Sbfl	CCTGCA!GG	0	
ScaI	AGT!ACT	1	769
SchI	GAGTCNNNNN!	2	1215; 1647
SchI	!NNNNNGACTC	5	16; 808; 1222; 2828; 3705
SciI	CTC!GAG	1	33
ScrFI	CC!NGG	19	75; 76; 280; 328; 424; 677; 1699; 1754; 1771; 2167; 2327; 2550; 2940; 3129; 3232; 3704; 3922; 3935; 4056
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNN!	5	534; 1741; 1813; 1982; 3924
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	2	2318; 2803
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	14	38; 75; 160; 187; 220; 797; 1354; 2109; 2202; 2276; 2466; 2528; 3238; 3771
SelI	!CGCG	15	67; 810; 1085; 1461; 1481; 1505; 1536; 2227; 2528; 2966; 3050; 3113; 3182; 3455; 4036

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SetI	ASST!	53	38; 44; 119; 242; 292; 464; 599; 617; 668; 736; 740; 779; 802; 853; 874; 883; 895; 944; 1111; 1226; 1238; 1281; 1318; 1368; 1391; 1515; 1663; 1758; 1951; 2064; 2192; 2271; 2282; 2354; 2425; 2469; 2729; 2875; 2919; 3250; 3281; 3340; 3383; 3526; 3547; 3646; 3783; 3798; 3817; 3829; 3873; 3919; 3970
SexAI	A!CCWGGT	1	1752
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	341; 979; 1742; 1814; 2462; 2526; 2801
SfaNI	!NNNNNNNNNGATGC	8	494; 533; 662; 793; 2121; 2376; 2592; 3984
Sfcl	C!TRYAG	4	52; 1498; 3625; 3816
SfiI	GGCCNNNN!NGGCC	2	572; 1938
SfoI	GGC!GCC	1	2164
Sfr274I	C!TCGAG	1	31
Sfr303I	CCGC!GG	1	70
Sful	TT!CGAA	2	45; 2845
SgeI	CNNGNNNNNNNN!	171	6; 22; 43; 80; 97; 126; 144; 162; 192; 216; 234; 249; 291; 306; 339; 373; 386; 414; 435; 450; 477; 511; 532; 545; 565; 579; 594; 610; 627; 642; 660; 681; 702; 715; 753; 777; 794; 823; 870; 899; 941; 1024; 1098; 1182; 1204; 1236; 1273; 1291; 1310; 1325; 1367; 1384; 1401; 1436; 1450; 1467; 1489; 1513; 1537; 1602; 1616; 1654; 1670; 1710; 1723; 1742; 1765; 1782; 1795; 1814; 1844; 1865; 1882; 1905; 1940; 1967; 1998; 2020; 2046; 2068; 2087; 2115; 2151; 2170; 2193; 2207; 2227; 2240; 2254; 2273; 2287; 2306; 2338; 2352; 2365; 2391; 2422; 2435; 2452; 2469; 2483; 2500; 2518; 2533; 2561; 2577; 2596; 2618; 2634; 2657; 2676; 2701; 2720; 2740; 2767; 2791; 2824; 2843; 2871; 2885; 2951; 2975; 2990; 3013; 3034; 3051; 3099; 3126; 3140; 3169; 3193; 3226; 3243; 3263; 3276; 3289; 3347; 3374; 3393; 3423; 3448; 3468; 3482; 3507; 3525; 3562; 3600; 3629; 3657; 3671; 3691; 3706; 3727; 3741; 3760; 3778; 3794; 3834; 3854; 3881; 3899; 3920; 3933; 3946; 3963; 3987; 4010; 4042; 4067; 4094; 4116
SgeI	!NNNNNNNNNNNNCNG	148	5; 25; 54; 71; 100; 118; 136; 166; 190; 208; 232; 265; 313; 347; 388; 409; 451; 485; 506; 526; 553; 577; 601; 634; 655; 676; 700; 727; 751; 768; 797; 844; 873; 915; 998; 1072; 1156; 1178; 1210; 1247; 1265; 1284; 1341; 1358; 1375; 1410; 1428; 1448; 1468; 1487; 1511; 1576; 1628; 1684; 1716; 1739; 1756; 1788; 1818; 1839; 1856; 1879; 1914; 1941; 1972; 1994; 2020; 2042; 2061; 2089; 2125; 2144; 2167; 2188; 2206; 2223; 2247; 2280; 2312; 2339; 2365; 2396; 2426; 2443; 2469; 2492; 2513; 2535; 2555; 2575; 2592; 2631; 2650; 2675; 2694; 2714; 2741; 2765; 2798; 2817; 2845; 2867; 2925; 2949; 2968; 2987; 3008; 3025; 3073; 3100; 3120; 3143; 3167; 3200; 3217; 3237; 3263; 3321; 3348; 3367; 3397; 3422; 3442; 3481; 3499; 3536; 3574; 3603; 3631; 3652; 3680; 3701; 3734; 3752; 3808; 3828; 3855; 3873; 3894; 3920; 3937; 3961; 3984; 4016; 4041; 4068; 4090; 4119
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	70
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1310; 3097; 3890
SimI	!GACCC	3	2591; 3159; 3407
SinI	G!GWCC	3	693; 2679; 3124
SlaI	C!TCGAG	1	31
SmaI	CCC!GGG	1	76
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	97; 136; 541; 2600
SmlI	C!TYRAG	9	31; 37; 628; 667; 1045; 2554; 3436; 3713; 3975
SmoI	C!TYRAG	9	31; 37; 628; 667; 1045; 2554; 3436; 3713; 3975
SmuI	CCCCNNNN!	7	561; 663; 1485; 1840; 1861; 3057; 3189
SmuI	!NNNNNNGCGGG	7	62; 598; 1416; 2286; 2823; 2961; 3108
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1733; 1805; 2568
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	47; 913; 977; 1055; 1081; 1092; 1739; 1811; 1903; 3321
Sse8387I	CCTGCA!GG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	1984
SsiI	C!CGC	29	67; 416; 554; 656; 810; 1478; 1481; 1495; 1585; 1833; 1845; 1854; 1866; 1876; 1887; 1933; 2072; 2135; 2637; 2682; 2748; 2774; 2899; 2902; 3050; 3182; 3489; 3633; 4129
SsiI	G!CGG	25	69; 251; 563; 605; 806; 1423; 1450; 1538; 1648; 2229; 2293; 2394; 2397; 2677; 2732; 2830; 2968; 3115; 3255; 3498; 3743; 3864; 3883; 4010; 4038
SspI	AAT!ATT	2	1071; 1624
SspDI	G!GCGCC	1	2162
SspD5I	GGTGANNNNNNNN!	4	115; 489; 3234; 3350
SspD5I	!NNNNNNNNNTCACC	4	113; 377; 1279; 2340
SstI	GAGCT!C	1	38
SstII	CCGC!GG	1	70
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	422
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	17	81; 344; 560; 662; 683; 1362; 1484; 1839; 1860; 2173; 2576; 2715; 2786; 3056; 3188; 3418; 3856
Sth132I	!NNNNNNNNNCGGG	19	61; 393; 465; 597; 1363; 1415; 1516; 2243; 2285; 2318; 2822; 2931; 2960; 3107; 3211; 3242; 3695; 3739; 3947
Sth302II	CC!GG	20	20; 76; 86; 678; 1382; 2069; 2146; 2168; 2196; 2327; 2417; 2484; 2665; 2940; 2948; 3040; 3514; 3704; 3730; 3877
StrI	C!TCGAG	1	31
StsI	GGATGNNNNNNNNNN!	4	2031; 2488; 2513; 2967
StsI	!NNNNNNNNNNNNNNNNCATCC	5	173; 261; 318; 473; 1835
StuI	AGG!CCT	1	1984
StyI	C!CWWGG	6	95; 576; 1892; 1985; 2595; 3000
StyD4I	!CCNGG	19	73; 74; 278; 326; 422; 675; 1697; 1752; 1769; 2165; 2325; 2548; 2938; 3127; 3230; 3702; 3920; 3933; 4054
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	11	63; 146; 162; 1254; 2543; 2659; 2767; 3090; 3581; 4051; 4122
TaiI	ACGT!	10	464; 740; 1226; 1238; 1281; 1391; 2282; 2469; 3250; 3383
TaqI	T!CGA	17	32; 45; 58; 245; 272; 740; 1312; 2003; 2276; 2432; 2456; 2492; 2654; 2845; 2890; 3145; 3983
TaqII	GACCGANNNNNNNNNN!	3	1183; 2200; 2868
TaqII	!NNNNNNNNNTCGGTC	1	3112
TaqII	CACCCANNNNNNNNNN!	2	235; 340
TaqII	!NNNNNNNNNTGGGTG	3	91; 2067; 2659
TasI	!AATT	10	47; 913; 977; 1055; 1081; 1092; 1739; 1811; 1903; 3321
TatI	W!GTACW	2	146; 767
TauI	GCSG!C	19	254; 566; 809; 812; 1483; 1497; 1935; 2074; 2137; 2232; 2397; 2400; 2639; 2735; 2776; 2904; 3258; 3886; 4041
TfiI	G!AWTC	7	383; 710; 2648; 2782; 2892; 2929; 4107
THI	C!TCGAG	1	31
TruII	T!TAA	15	347; 864; 925; 1046; 1067; 1078; 1090; 1101; 1118; 1216; 1487; 3306; 3320; 3325; 3377
Tru9I	T!TAA	15	347; 864; 925; 1046; 1067; 1078; 1090; 1101; 1118; 1216; 1487; 3306; 3320; 3325; 3377
TscAI	CASTGNN!	6	625; 1009; 2292; 3402; 3673; 3686
TseI	G!CWGC	16	302; 446; 744; 939; 1458; 2123; 2224; 2266; 2307; 2400; 2787; 3240; 3466; 3672; 3675; 3740
TsoI	TARCCANNNNNNNNNN!	2	1135; 1482
TsoI	!NNNNNNNNNTGGYTA	3	271; 940; 2692
Tsp45I	!GTSAC	3	1452; 2283; 2589
Tsp509I	!AATT	10	47; 913; 977; 1055; 1081; 1092; 1739; 1811; 1903; 3321
TspDTI	ATGAANNNNNNNNNN!	5	154; 244; 921; 2222; 2926
TspDTI	!NNNNNNNNNTTCAT	5	282; 303; 2640; 3096; 3303
TspEI	!AATT	10	47; 913; 977; 1055; 1081; 1092; 1739; 1811; 1903; 3321
TspGWI	ACGGANNNNNNNNNN!	1	3038
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	74
TspRI	CASTGNN!	6	625; 1009; 2292; 3402; 3673; 3686
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Tth111I	GACN!NNGTC	1	2281
Tth111II	CAARCANNNNNNNNNNN!	1	3490
Tth111III	!NNNNNNNNNTGYTTG	3	2598; 3458; 3497
UnbI	!GGNCC	12	70; 71; 252; 495; 587; 692; 1269; 2678; 3123; 3169; 3227; 3260
Van91I	CCANNNN!NTGG	2	690; 702
Vha464I	C!TTAAG	1	1045
VneI	G!TGCAC	2	183; 3767
VpaK11AI	!GGWCC	3	692; 2678; 3123
VpaK11BI	G!GWCC	3	693; 2679; 3124
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	47; 977; 1081; 1092
XbaI	T!CTAGA	1	817
XceI	RCATG!Y	5	135; 1733; 1805; 2568; 4085
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	31
XhoII	R!GATCY	10	27; 78; 643; 2334; 2580; 2972; 3331; 3343; 3429; 3440
XmaI	C!CCGGG	1	74
XmaJI	C!CTAGG	2	1985; 3000
XmiI	GT!MKAC	1	58
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	10; 782; 818; 1012; 1430; 1986; 3001; 3335; 3588
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	1	769
Zsp2I	ATGCA!T	3	1735; 1807; 4138