

## pTurboGFP-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	1073; 1278
AarI	CACCTGCNNNN!	1	548
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1361; 2317; 4106
AatI	AGG!CCT	1	2111
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	58
AccII	CG!CG	18	69; 443; 599; 704; 939; 1214; 1590; 1610; 1634; 1665; 2356; 2657; 3095; 3179; 3242; 3311; 3584; 4165
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2392
Acc36I	ACCTGCNNNN!	4	275; 548; 2558; 3008
Acc36I	!NNNNNNNNGCAGGT	1	2177
Acc65I	G!GTACC	1	63
AccB1I	G!GYRCC	9	63; 151; 196; 244; 307; 469; 1443; 2289; 2324
AccB7I	CCANNNN!NTGG	1	282
AccBSI	CCG!CTC	2	1714; 2903
AccBSI	GAG!CGG	4	113; 878; 1550; 2957
AceIII	CAGCTCNNNNNNN!	2	627; 1246
AceIII	!NNNNNNNNNNGAGCTG	2	163; 718
AciI	C!CGC	37	67; 122; 141; 213; 375; 426; 441; 516; 582; 699; 702; 820; 937; 1605; 1608; 1622; 1712; 1960; 1972; 1981; 1993; 2003; 2014; 2060; 2199; 2262; 2764; 2809; 2875; 2901; 3026; 3029; 3177; 3309; 3616; 3760; 4256
AciI	G!CGG	31	69; 113; 185; 188; 320; 359; 398; 605; 826; 832; 878; 1550; 1577; 1665; 1775; 2356; 2420; 2521; 2524; 2804; 2859; 2957; 3095; 3242; 3382; 3625; 3870; 3991; 4010; 4137; 4165
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	11	86; 722; 925; 938; 2158; 2469; 2715; 3107; 3466; 3564; 3650
AclWI	!NNNNNGATCC	5	73; 2534; 3078; 3465; 3562
AcoI	Y!GGCCR	6	438; 934; 2196; 2370; 2761; 2788
AcsI	R!AATY	4	47; 1104; 1208; 1219
AcuI	CTGAAGNNNNNNNNNNNNNNN!	2	2436; 2868
AcuI	!NNNNNNNNNNNNNCTTCAG	4	240; 402; 573; 3666
AcvI	CAC!GTG	2	279; 411
AcyI	GR!CGYC	4	245; 2290; 2992; 3071
AdeI	CACNNN!GTG	1	1406
AfaI	GT!AC	4	65; 388; 748; 2596
AfeI	AGC!GCT	1	14
AfiI	CCNNNNN!NNGG	20	207; 282; 432; 705; 825; 1302; 1628; 2020; 2271; 2815; 3096; 3128; 3260; 3295; 3345; 3377; 3730; 4009; 4175; 4193
AflII	C!TTAAG	1	1172
AflIII	A!CRYGT	1	4208
AgeI	A!CCGGT	1	84
AgsI	TTS!AA	8	459; 645; 762; 1701; 1745; 1755; 2168; 3744
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	10	869; 1824; 1879; 1896; 2675; 3254; 3357; 4047; 4060; 4181
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	1864; 1936
AlfI	!NNNNNNNNNNNGCANNNNNNTGC	2	1830; 1902
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1372
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1340
AluI	AG!CT	19	36; 42; 177; 416; 422; 575; 617; 732; 1069; 1236; 1493; 1788; 2076; 2396; 2854; 3651; 3908; 3954; 4044
AluBI	AG!CT	19	36; 42; 177; 416; 422; 575; 617; 732; 1069; 1236; 1493; 1788; 2076; 2396; 2854; 3651; 3908; 3954; 4044
AlwI	GGATCNNNN!	11	86; 722; 925; 938; 2158; 2469; 2715; 3107; 3466; 3564; 3650
AlwI	!NNNNNGATCC	5	73; 2534; 3078; 3465; 3562
Alw21I	GWGCW!C	6	38; 238; 539; 2403; 2593; 3898
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	4	1714; 2132; 3151; 3279
Alw44I	G!TGAC	1	3894
AlwNI	CAGNNN!CTG	2	3391; 3799
Ama87I	C!YCGRG	5	31; 74; 202; 481; 797
Aor13HI	T!CCGGA	0	
Aor51HI	AG!GCT	1	14
ApaI	GGGCC!C	2	75; 685
ApaBI	GCANNNNN!TGC	4	905; 1858; 1930; 3392
ApaLI	G!TGAC	1	3894
ApeKI	G!CWGC	18	405; 518; 572; 852; 898; 1066; 1585; 2250; 2351; 2393; 2434; 2527; 2914; 3367; 3593; 3799; 3802; 3867
ApoI	R!AATTY	4	47; 1104; 1208; 1219
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2805
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	2599; 3252; 4090
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2689
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	734; 2118
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	2	459; 2860
ArsI	GACNNNNNNNTTYGNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	28	28; 79; 132; 447; 495; 510; 562; 715; 794; 918; 931; 948; 2128; 2132; 2151; 2462; 2540; 2621; 2630; 2708; 3084; 3100; 3459; 3471; 3549; 3557; 3568; 3643
AsiGI	A!CCGGT	1	84
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2408
Asp700I	GAANN!NNTTC	1	334
Asp718I	G!GTACC	1	63
AspA2I	C!CTAGG	2	2112; 3127
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	25	15; 247; 599; 652; 837; 1556; 1564; 1590; 1612; 1621; 1634; 1665; 2284; 2292; 2356; 2393; 2659; 2919; 3095; 3181; 3584; 3693; 3867; 3967; 4034
AspS9I	G!GNCC	12	71; 72; 210; 681; 682; 885; 1397; 2806; 3251; 3297; 3355; 3388
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	45; 2972
AsuC2I	CC!SGG	7	75; 76; 769; 2294; 2454; 3067; 3831
AsuHPI	GGTGANNNNNNNNN!	4	474; 796; 3361; 3477
AsuHPI	!NNNNNNNTCACC	6	138; 492; 570; 883; 1407; 2468
AsuNHI	G!CTAGC	0	
AvaI	C!YCGRG	5	31; 74; 202; 481; 797
AvaII	G!GWCC	3	885; 2806; 3251
AviII	TGC!GCA	1	2392
AvrII	C!CTAGG	2	2112; 3127
AxyI	CC!TNAGG	2	1770; 3402

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; 199; 472; 685; 870; 2236; 2329; 3898
BalI	TGG!CCA	1	2372
BamHI	G!GATCC	1	78
BanI	G!GYRCC	9	63; 151; 196; 244; 307; 469; 1443; 2289; 2324
BanII	GRGCY!C	6	38; 75; 685; 1481; 2655; 3365
BanIII	AT!CGAT	1	2130
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	282
BauI	C!ACGAG	2	3008; 4035
BauI	C!TCGTG	1	2882
BbeI	GGCGC!C	2	248; 2293
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	279; 411
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1860; 1932; 2695
BbvI	GCAGCNNNNNNN!	9	530; 584; 910; 1078; 2363; 2405; 2926; 3379; 3879
BbvI	!NNNNNNNNNNNGCTGC	8	392; 839; 1572; 2237; 2421; 2514; 3580; 3786
Bbv12I	GWGCW!C	6	38; 238; 539; 2403; 2593; 3898
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	355; 661; 1420; 1984; 2510; 3012
BccI	!NNNNNGATGG	8	276; 459; 562; 838; 876; 1388; 2168; 2596
BceAI	ACGGCNNNNNNNNNN!	7	177; 306; 372; 411; 618; 2716; 3203
BceAI	!NNNNNNNNNNNGCCGT	3	1431; 2249; 3708
Bcefl	ACGGCNNNNNNNNNN!	7	177; 306; 372; 411; 618; 2716; 3203
Bcefl	!NNNNNNNNNNNGCCGT	3	1432; 2250; 3709
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	1719; 2509; 4010
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	7	75; 76; 769; 2294; 2454; 3067; 3831
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4143
BdaI	!NNNNNNNNNNTGANNNNNTCA	1	4109
BfaI	C!TAG	9	10; 914; 945; 1139; 1557; 2113; 3128; 3462; 3715
BfiI	ACTGGGNNNNN!	1	2239
BfiI	!NNNCCCAGT	1	1991
BfmI	C!TRYAG	7	52; 612; 670; 896; 1625; 3752; 3943
BfoI	RGCGC!Y	7	16; 248; 653; 1557; 1565; 2293; 3968
BfrI	C!TTAAG	1	1172
BfuI	GTATCCNNNNN!	3	1719; 2509; 4010
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	275; 548; 2558; 3008
BfuAI	!NNNNNNNGCAGGT	1	2177
BfuCI	!GATC	28	27; 78; 131; 446; 494; 509; 561; 714; 793; 917; 930; 947; 2127; 2131; 2150; 2461; 2539; 2620; 2629; 2707; 3083; 3099; 3458; 3470; 3548; 3556; 3567; 3642
BglI	GCCNNNN!NGGC	1	2065
BglII	A!GATCT	2	27; 793

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BisI	GC!NGC	45	114; 141; 186; 213; 321; 360; 399; 406; 441; 519; 573; 606; 702; 833; 853; 899; 937; 1067; 1586; 1608; 1622; 2060; 2199; 2251; 2262; 2352; 2357; 2394; 2435; 2522; 2525; 2528; 2764; 2860; 2901; 2915; 3029; 3368; 3383; 3594; 3800; 3803; 3868; 4011; 4166
BlnI	C!CTAGG	2	2112; 3127
BlpI	GC!TNAGC	1	271
BlsI	GCN!GC	45	115; 142; 187; 214; 322; 361; 400; 407; 442; 520; 574; 607; 703; 834; 854; 900; 938; 1068; 1587; 1609; 1623; 2061; 2200; 2252; 2263; 2353; 2358; 2395; 2436; 2523; 2526; 2529; 2765; 2861; 2902; 2916; 3030; 3369; 3384; 3595; 3801; 3804; 3869; 4012; 4167
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	885; 2806; 3251
Bme1390I	CC!NGG	17	75; 76; 769; 871; 1826; 1881; 1898; 2294; 2454; 2677; 3067; 3256; 3359; 3831; 4049; 4062; 4183
BmeRI	GACNN!NNGTC	0	
BmeT110I	C!YCGRG	5	31; 74; 202; 481; 797
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	12	72; 73; 211; 682; 683; 886; 1398; 2807; 3252; 3298; 3356; 3389
BmiI	GGN!NCC	22	65; 73; 80; 153; 198; 246; 309; 471; 683; 1445; 1466; 1478; 1669; 1830; 1902; 2291; 2326; 3174; 3253; 3298; 4141; 4180
BmrI	ACTGGGNNNNN!	1	2239
BmrI	!NNNNCCCAGT	1	1991
BmrFI	CC!NGG	17	75; 76; 769; 871; 1826; 1881; 1898; 2294; 2454; 2677; 3067; 3256; 3359; 3831; 4049; 4062; 4183
BmsI	GCATCNNNNN!	10	152; 386; 674; 746; 1106; 1869; 1941; 2589; 2653; 2928
BmsI	!NNNNNNNNNGATGC	5	762; 2248; 2503; 2719; 4111
BmtI	GCTAG!C	0	
BmuI	ACTGGGNNNNN!	1	2239
BmuI	!NNNNCCCAGT	1	1991
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2079; 2978
BpI	!NNNNNNNNGAGNNNNNCTC	2	2047; 2946
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3130
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3073
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	45; 2972
Bpu1102I	GC!TNAGC	1	271
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3584; 4123
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	22; 2666; 3825
BpuMI	CC!SGG	7	75; 76; 769; 2294; 2454; 3067; 3831
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3279
Bsa29I	AT!CGAT	1	2130
BsaAI	YAC!GTR	4	279; 411; 1406; 2594
BsaBI	GATNN!NNATC	3	560; 952; 2149
BsaHI	GR!CGYC	4	245; 2290; 2992; 3071
BsaJI	C!CNNGG	25	67; 74; 95; 125; 482; 530; 548; 620; 767; 810; 869; 1824; 1896; 2019; 2054; 2063; 2112; 2453; 2722; 3127; 3254; 3255; 3357; 3358; 4048
BsaMI	GAATGCN!	1	1041
BsaMI	G!CATTC	1	1134
BsaWI	W!CCGGW	6	18; 84; 2321; 3165; 3855; 4002
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	631; 1370
BsaXI	!NNNNNNNGGAGNNNNNNGT	1	121
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	151
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	601; 1340

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	2	395; 749
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1291; 3198
Bsc4I	CCNNNNN!NNGG	20	207; 282; 432; 705; 825; 1302; 1628; 2020; 2271; 2815; 3096; 3128; 3260; 3295; 3345; 3377; 3730; 4009; 4175; 4193
BscAI	GCATCNNNN!	10	151; 385; 673; 745; 1105; 1868; 1940; 2588; 2652; 2927
BscAI	!NNNNNNGATGC	5	765; 2251; 2506; 2722; 4114
Bse1I	ACTGGN!	3	2234; 2435; 3681
Bse1I	C!CAGT	4	1319; 1997; 3793; 3806
Bse8I	GATNN!NNATC	3	560; 952; 2149
Bse21I	CC!TNAGG	2	1770; 3402
Bse118I	R!CCGGY	10	84; 148; 436; 472; 781; 822; 1507; 2609; 2790; 3073
BseAI	T!CCGGA	0	
BseBI	CC!WGG	10	871; 1826; 1881; 1898; 2677; 3256; 3359; 4049; 4062; 4183
BseCI	AT!CGAT	1	2130
BseDI	C!CNNGG	25	67; 74; 95; 125; 482; 530; 548; 620; 767; 810; 869; 1824; 1896; 2019; 2054; 2063; 2112; 2453; 2722; 3127; 3254; 3255; 3357; 3358; 4048
Bse3DI	GCAATGNN!	1	2523
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	8	573; 777; 846; 887; 2150; 2607; 2632; 3086
BseGI	!CATCC	4	512; 653; 665; 1976
BseJI	GATNN!NNATC	3	560; 952; 2149
BseLI	CCNNNNN!NNGG	20	207; 282; 432; 705; 825; 1302; 1628; 2020; 2271; 2815; 3096; 3128; 3260; 3295; 3345; 3377; 3730; 4009; 4175; 4193
BseMI	GCAATGNN!	1	2523
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	38; 3416
BseMII	!NNNNNNNNNCTGAG	6	262; 1761; 2063; 2944; 3516; 3925
BseNI	ACTGGN!	3	2234; 2435; 3681
BseNI	C!CAGT	4	1319; 1997; 3793; 3806
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	724; 2108
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	8	75; 199; 472; 685; 870; 2236; 2329; 3898
BseXI	GCAGCNNNNNNNN!	9	530; 584; 910; 1078; 2363; 2405; 2926; 3379; 3879
BseXI	!NNNNNNNNNNNGCTGC	8	392; 839; 1572; 2237; 2421; 2514; 3580; 3786
BseX3I	C!GGCCG	3	438; 934; 2196
BseYI	C!CCAGC	5	316; 661; 1833; 1905; 3904
BseYI	G!CTGGG	2	732; 2794
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	3	325; 391; 526
Bsh1236I	CG!CG	18	69; 443; 599; 704; 939; 1214; 1590; 1610; 1634; 1665; 2356; 2657; 3095; 3179; 3242; 3311; 3584; 4165
Bsh1285I	CGRY!CG	5	89; 441; 937; 2199; 3874
BshFI	GG!CC	24	73; 116; 212; 436; 440; 683; 936; 1256; 1398; 2053; 2059; 2068; 2111; 2198; 2372; 2763; 2790; 3299; 3356; 3389; 3734; 4168; 4186; 4197
BshNI	G!GYRCC	9	63; 151; 196; 244; 307; 469; 1443; 2289; 2324
BshTI	A!CCGGT	1	84
BshVI	AT!CGAT	1	2130
BsiEI	CGRY!CG	5	89; 441; 937; 2199; 3874
BsiHKAI	GWGCW!C	6	38; 238; 539; 2403; 2593; 3898
BsiHKCI	C!YCGRG	5	31; 74; 202; 481; 797
BsiSI	C!CGG	25	19; 75; 85; 149; 437; 473; 769; 782; 823; 1508; 2195; 2272; 2294; 2322; 2453; 2543; 2610; 2791; 3066; 3074; 3166; 3640; 3830; 3856; 4003
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	20	207; 282; 432; 705; 825; 1302; 1628; 2020; 2271; 2815; 3096; 3128; 3260; 3295; 3345; 3377; 3730; 4009; 4175; 4193
BsIFI	GGGACNNNNNNNNNN!	3	2441; 2973; 3082
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1806; 1878; 1942; 3237
BsmI	GAATGCN!	1	1041
BsmI	G!CATTC	1	1134
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	4	1714; 2132; 3151; 3279
BsmBI	CGTCTCN!	0	

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BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2441; 2973; 3082
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1806; 1878; 1942; 3237
BsnI	GG!CC	24	73; 116; 212; 436; 440; 683; 936; 1256; 1398; 2053; 2059; 2068; 2111; 2198; 2372; 2763; 2790; 3299; 3356; 3389; 3734; 4168; 4186; 4197
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACG	1	3279
BsoBI	C!YCGRG	5	31; 74; 202; 481; 797
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	6	95; 125; 548; 810; 2019; 2722
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	3093
Bsp24I	!NNNNNNCCANNNNNGTC	2	3514; 3692
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3546; 3724
Bsp24I	!NNNNNNNGACNNNNNTGG	1	3061
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	45; 2972
Bsp120I	G!GGCCC	2	71; 681
Bsp143I	!GATC	28	27; 78; 131; 446; 494; 509; 561; 714; 793; 917; 930; 947; 2127; 2131; 2150; 2461; 2539; 2620; 2629; 2707; 3083; 3099; 3458; 3470; 3548; 3556; 3567; 3642
Bsp1286I	GDGCH!C	16	38; 75; 199; 238; 472; 539; 685; 870; 1481; 2236; 2329; 2403; 2593; 2655; 3365; 3898
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	1	271
BspACI	C!CGC	37	67; 122; 141; 213; 375; 426; 441; 516; 582; 699; 702; 820; 937; 1605; 1608; 1622; 1712; 1960; 1972; 1981; 1993; 2003; 2014; 2060; 2199; 2262; 2764; 2809; 2875; 2901; 3026; 3029; 3177; 3309; 3616; 3760; 4256
BspACI	G!CGG	31	69; 113; 185; 188; 320; 359; 398; 605; 826; 832; 878; 1550; 1577; 1665; 1775; 2356; 2420; 2521; 2524; 2804; 2859; 2957; 3095; 3242; 3382; 3625; 3870; 3991; 4010; 4137; 4165
BspCNI	CTCAGNNNNNNNN!	2	37; 3415
BspCNI	!NNNNNNCTGAG	6	263; 1762; 2064; 2945; 3517; 3926
BspDI	AT!CGAT	1	2130
BspD6I	GACTCNNNN!	5	30; 949; 1363; 2969; 3846
BspD6I	!NNNNNGAGTC	2	1326; 1758
BspEI	T!CCGGA	0	
BspFNI	CG!CG	18	69; 443; 599; 704; 939; 1214; 1590; 1610; 1634; 1665; 2356; 2657; 3095; 3179; 3242; 3311; 3584; 4165
BspHI	T!CATGA	2	1716; 3488
BspLI	GGN!NCC	22	65; 73; 80; 153; 198; 246; 309; 471; 683; 1445; 1466; 1478; 1669; 1830; 1902; 2291; 2326; 3174; 3253; 3298; 4141; 4180
BspMI	ACCTGCNNNN!	4	275; 548; 2558; 3008
BspMI	!NNNNNNNGCAGGT	1	2177
BspOI	GCTAG!C	0	
BspPI	GGATCNNNN!	11	86; 722; 925; 938; 2158; 2469; 2715; 3107; 3466; 3564; 3650
BspPI	!NNNNNGATCC	5	73; 2534; 3078; 3465; 3562
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	226; 2634; 2844
BspTI	C!TTAAG	1	1172
BspT104I	TT!CGAA	2	45; 2972
BspT107I	G!GYRCC	9	63; 151; 196; 244; 307; 469; 1443; 2289; 2324
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACG	1	3279
BsrI	ACTGGN!	3	2234; 2435; 3681
BsrI	C!CAGT	4	1319; 1997; 3793; 3806
BsrBI	CCG!CTC	2	1714; 2903
BsrBI	GAG!CGG	4	113; 878; 1550; 2957
BsrDI	GCAATGNN!	1	2523
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	10	84; 148; 436; 472; 781; 822; 1507; 2609; 2790; 3073
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	3	2234; 2435; 3681
BsrSI	C!CAGT	4	1319; 1997; 3793; 3806
BssAI	R!CCGGY	10	84; 148; 436; 472; 781; 822; 1507; 2609; 2790; 3073

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssECI	C!CNGGG	25	67; 74; 95; 125; 482; 530; 548; 620; 767; 810; 869; 1824; 1896; 2019; 2054; 2063; 2112; 2453; 2722; 3127; 3254; 3255; 3357; 3358; 4048
BssHII	G!CGCGC	0	
BssKI	!CCNGG	17	73; 74; 767; 869; 1824; 1879; 1896; 2292; 2452; 2675; 3065; 3254; 3357; 3829; 4047; 4060; 4181
BssMI	!GATC	28	27; 78; 131; 446; 494; 509; 561; 714; 793; 917; 930; 947; 2127; 2131; 2150; 2461; 2539; 2620; 2629; 2707; 3083; 3099; 3458; 3470; 3548; 3556; 3567; 3642
BssNI	GR!CGYC	4	245; 2290; 2992; 3071
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3008; 4035
BssSI	C!TCGTG	1	2882
BssTII	C!CWWGG	8	95; 125; 548; 810; 2019; 2112; 2722; 3127
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	226; 1757; 2634; 2844
Bst98I	C!TTAAG	1	1172
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	4	245; 2290; 2992; 3071
BstAFI	C!TTAAG	1	1172
BstAPI	GCANNNN!NTGC	4	904; 1857; 1929; 3391
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	2	45; 2972
Bst2BI	C!ACGAG	2	3008; 4035
Bst2BI	C!TCGTG	1	2882
BstBAI	YAC!GTR	4	279; 411; 1406; 2594
Bst4CI	ACN!GT	11	63; 531; 889; 1381; 2670; 2786; 2894; 3217; 3708; 4178; 4249
BstC8I	GCN!NGC	34	71; 118; 122; 344; 403; 438; 595; 755; 824; 850; 1509; 1552; 1566; 1839; 1858; 1911; 1930; 2184; 2370; 2589; 2655; 2661; 2693; 2734; 2738; 2792; 3075; 3262; 3309; 3365; 3387; 3598; 4158; 4195
BstDEI	C!TNAG	8	24; 271; 1770; 2072; 2953; 3402; 3525; 3934
BstDSI	C!CRYGG	9	67; 95; 125; 530; 548; 620; 810; 2019; 2722
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	8	573; 777; 846; 887; 2150; 2607; 2632; 3086
BstF5I	!CATCC	4	512; 653; 665; 1976
BstFNI	CG!CG	18	69; 443; 599; 704; 939; 1214; 1590; 1610; 1634; 1665; 2356; 2657; 3095; 3179; 3242; 3311; 3584; 4165
BstH2I	RGCGC!Y	7	16; 248; 653; 1557; 1565; 2293; 3968
BstHHI	GCG!C	25	15; 247; 599; 652; 837; 1556; 1564; 1590; 1612; 1621; 1634; 1665; 2284; 2292; 2356; 2393; 2659; 2919; 3095; 3181; 3584; 3693; 3867; 3967; 4034
BstKTI	GAT!C	28	30; 81; 134; 449; 497; 512; 564; 717; 796; 920; 933; 950; 2130; 2134; 2153; 2464; 2542; 2623; 2632; 2710; 3086; 3102; 3461; 3473; 3551; 3559; 3570; 3645
BstMAI	GTCTCN!	0	
BstMAI	!NNNNGAGAC	4	1714; 2132; 3151; 3279
BstMBI	!GATC	28	27; 78; 131; 446; 494; 509; 561; 714; 793; 917; 930; 947; 2127; 2131; 2150; 2461; 2539; 2620; 2629; 2707; 3083; 3099; 3458; 3470; 3548; 3556; 3567; 3642
BstMCI	CGRY!CG	5	89; 441; 937; 2199; 3874
BstMWI	GCNNNNN!NNGC	28	110; 149; 194; 242; 449; 581; 605; 832; 904; 1517; 1547; 1574; 1616; 1857; 1929; 1980; 2059; 2281; 2365; 2388; 2527; 2650; 2733; 3000; 3187; 3391; 3590; 4162
BstNI	CC!WGG	10	871; 1826; 1881; 1898; 2677; 3256; 3359; 4049; 4062; 4183
BstNSI	RCATG!Y	5	639; 1860; 1932; 2695; 4212
BstOI	CC!WGG	10	871; 1826; 1881; 1898; 2677; 3256; 3359; 4049; 4062; 4183
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	17	73; 74; 767; 869; 1824; 1879; 1896; 2292; 2452; 2675; 3065; 3254; 3357; 3829; 4047; 4060; 4181
BstSFI	C!TRYAG	7	52; 612; 670; 896; 1625; 3752; 3943
BstSLI	GKGC!C	8	75; 199; 472; 685; 870; 2236; 2329; 3898
BstSNI	TAC!GTA	0	
BstUI	CG!CG	18	69; 443; 599; 704; 939; 1214; 1590; 1610; 1634; 1665; 2356; 2657; 3095; 3179; 3242; 3311; 3584; 4165

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bst2UI	CC!WGG	10	871; 1826; 1881; 1898; 2677; 3256; 3359; 4049; 4062; 4183
BstV1I	GCAGCNNNNNNNN!	9	530; 584; 910; 1078; 2363; 2405; 2926; 3379; 3879
BstV1I	!NNNNNNNNNNNGCTGC	8	392; 839; 1572; 2237; 2421; 2514; 3580; 3786
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	27; 78; 793; 2461; 2707; 3099; 3458; 3470; 3556; 3567
BstYI	R!GATCY	10	27; 78; 793; 2461; 2707; 3099; 3458; 3470; 3556; 3567
BstZI	C!GGCCG	3	438; 934; 2196
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1719; 2509; 4010
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2130
Bsu36I	CC!TNAGG	2	1770; 3402
BsuRI	GG!CC	24	73; 116; 212; 436; 440; 683; 936; 1256; 1398; 2053; 2059; 2068; 2111; 2198; 2372; 2763; 2790; 3299; 3356; 3389; 3734; 4168; 4186; 4197
BsuTUI	AT!CGAT	1	2130
BtgI	C!CRYGG	9	67; 95; 125; 530; 548; 620; 810; 2019; 2722
BtgZI	GCGATGNNNNNNNNNN!	2	1407; 2742
BtgZI	!NNNNNNNNNNNNNNCATCGC	2	2561; 2905
BthCI	GCNG!C	45	116; 143; 188; 215; 323; 362; 401; 408; 443; 521; 575; 608; 704; 835; 855; 901; 939; 1069; 1588; 1610; 1624; 2062; 2201; 2253; 2264; 2354; 2359; 2396; 2437; 2524; 2527; 2530; 2766; 2862; 2903; 2917; 3031; 3370; 3385; 3596; 3802; 3805; 3870; 4013; 4168
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1129
BtsCI	GGATGNN!	8	573; 777; 846; 887; 2150; 2607; 2632; 3086
BtsCI	!CATCC	4	512; 653; 665; 1976
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	275; 548; 2558; 3008
BveI	!NNNNNNNNNGCAGGT	1	2177
Cac8I	GCN!NGC	34	71; 118; 122; 344; 403; 438; 595; 755; 824; 850; 1509; 1552; 1566; 1839; 1858; 1911; 1930; 2184; 2370; 2589; 2655; 2661; 2693; 2734; 2738; 2792; 3075; 3262; 3309; 3365; 3387; 3598; 4158; 4195
CaiI	CAGNNN!CTG	2	3391; 3799
CciI	T!CATGA	2	1716; 3488
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	6	381; 741; 2579; 2584; 2782; 2923
CdiI	C!GATG	2	1393; 2728
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	2	213; 4162
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	2	1951; 1993
CelII	GC!TNAGC	1	271
CfoI	GCG!C	25	15; 247; 599; 652; 837; 1556; 1564; 1590; 1612; 1621; 1634; 1665; 2284; 2292; 2356; 2393; 2659; 2919; 3095; 3181; 3584; 3693; 3867; 3967; 4034
CfrI	Y!GGCCR	6	438; 934; 2196; 2370; 2761; 2788
Cfr9I	C!CCGGG	1	74
Cfr10I	R!CCGGY	10	84; 148; 436; 472; 781; 822; 1507; 2609; 2790; 3073
Cfr13I	G!GNCC	12	71; 72; 210; 681; 682; 885; 1397; 2806; 3251; 3297; 3355; 3388
Cfr42I	CCGC!GG	1	70
ChaI	GATC!	28	31; 82; 135; 450; 498; 513; 565; 718; 797; 921; 934; 951; 2131; 2135; 2154; 2465; 2543; 2624; 2633; 2711; 3087; 3103; 3462; 3474; 3552; 3560; 3571; 3646
CjeI	CCANNNNNGTNNNNNNNNNNNNNNNN!	5	882; 2107; 3547; 3647; 3725
CjeI	!NNNNNNNNNACNNNNNNNTGG	5	1774; 1869; 3061; 3611; 4166
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	5	1808; 1903; 3095; 3645; 4200
CjeI	!NNNNNNNNCCANNNNNNNGT	5	848; 2073; 3513; 3613; 3691
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	3547; 3725
CjePI	!NNNNNNNNGANNNNNNNTGG	2	3061; 3660
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	2	3094; 3693



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjePI	!NNNNNNNCCANNNNNNTC	2	3514; 3692
Clai	AT!CGAT	1	2130
CpoI	CG!GWCCG	1	2806
CseI	GACGCNNNNN!	2	3000; 3079
CseI	!NNNNNNNNNGCGTC	3	1623; 3518; 4096
CsiI	A!CCWGGT	1	1879
CspI	CG!GWCCG	1	2806
Csp6I	G!TAC	4	64; 387; 747; 2595
Csp45I	TT!CGAA	2	45; 2972
CspAI	A!CCGGT	1	84
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	1570; 3179
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	21	96; 126; 216; 549; 636; 687; 811; 858; 1717; 1857; 1929; 2020; 2161; 2506; 2692; 2723; 2749; 3105; 3489; 4209; 4260
CviJI	RG!CY	94	36; 42; 73; 116; 177; 212; 260; 275; 287; 293; 323; 362; 416; 422; 436; 440; 476; 575; 593; 608; 617; 632; 683; 732; 809; 815; 901; 936; 959; 1069; 1236; 1256; 1398; 1479; 1493; 1507; 1788; 1829; 1901; 2024; 2053; 2059; 2068; 2076; 2099; 2111; 2117; 2198; 2215; 2223; 2250; 2275; 2359; 2368; 2372; 2396; 2434; 2510; 2527; 2546; 2609; 2653; 2663; 2680; 2763; 2790; 2794; 2831; 2854; 2870; 3050; 3077; 3138; 3260; 3299; 3356; 3363; 3370; 3389; 3400; 3651; 3680; 3723; 3734; 3799; 3878; 3903; 3908; 3954; 4044; 4142; 4168; 4186; 4197
CviKI-1	RG!CY	94	36; 42; 73; 116; 177; 212; 260; 275; 287; 293; 323; 362; 416; 422; 436; 440; 476; 575; 593; 608; 617; 632; 683; 732; 809; 815; 901; 936; 959; 1069; 1236; 1256; 1398; 1479; 1493; 1507; 1788; 1829; 1901; 2024; 2053; 2059; 2068; 2076; 2099; 2111; 2117; 2198; 2215; 2223; 2250; 2275; 2359; 2368; 2372; 2396; 2434; 2510; 2527; 2546; 2609; 2653; 2663; 2680; 2763; 2790; 2794; 2831; 2854; 2870; 3050; 3077; 3138; 3260; 3299; 3356; 3363; 3370; 3389; 3400; 3651; 3680; 3723; 3734; 3799; 3878; 3903; 3908; 3954; 4044; 4142; 4168; 4186; 4197
CviQI	G!TAC	4	64; 387; 747; 2595
DdeI	C!TNAG	8	24; 271; 1770; 2072; 2953; 3402; 3525; 3934
DinI	GGC!GCC	2	246; 2291
DpnI	GA!TC	28	29; 80; 133; 448; 496; 511; 563; 716; 795; 919; 932; 949; 2129; 2133; 2152; 2463; 2541; 2622; 2631; 2709; 3085; 3101; 3460; 3472; 3550; 3558; 3569; 3644
DpnII	!GATC	28	27; 78; 131; 446; 494; 509; 561; 714; 793; 917; 930; 947; 2127; 2131; 2150; 2461; 2539; 2620; 2629; 2707; 3083; 3099; 3458; 3470; 3548; 3556; 3567; 3642
DraI	TTT!AAA	3	992; 3434; 3453
DraII	RG!GNCCY	2	681; 3388
DraIII	CACNNN!GTG	1	1406
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	1	3770
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	1361; 2317; 4106
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1361; 2317; 4106
EaeI	Y!GGCCR	6	438; 934; 2196; 2370; 2761; 2788
EagI	C!GGCCG	3	438; 934; 2196
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	4	226; 1757; 2634; 2844
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	226; 1757; 2634; 2844
EciI	GGCGGANNNNNNNNNN!	5	203; 1790; 2819; 4006; 4152
EciI	!NNNNNNNNNTCCGCC	4	688; 1961; 1982; 2003
Ecl136II	GAG!CTC	1	36
EclXI	C!GGCCG	3	438; 934; 2196
Eco24I	GRGCY!C	6	38; 75; 685; 1481; 2655; 3365

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	3279
Eco32I	GAT!ATC	1	804
Eco47I	G!GWCC	3	885; 2806; 3251
Eco47III	AGC!GCT	1	14
Eco52I	C!GGCCG	3	438; 934; 2196
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	2	2436; 2868
Eco57I	!NNNNNNNNNNNNNNCTTCAG	4	240; 402; 573; 3666
Eco72I	CAC!GTG	2	279; 411
Eco81I	CC!TNAGG	2	1770; 3402
Eco88I	C!YCGRG	5	31; 74; 202; 481; 797
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	8	95; 125; 548; 810; 2019; 2112; 2722; 3127
Eco147I	AGG!CCT	1	2111
EcoHI	!CCSGG	7	73; 74; 767; 2292; 2452; 3065; 3829
EcoICRI	GAG!CTC	1	36
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	3	2436; 2868; 3130
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	240; 402; 573; 3073; 3666
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	681; 3388
EcoRI	G!AATTC	1	47
EcoRII	!CCWGG	10	869; 1824; 1879; 1896; 2675; 3254; 3357; 4047; 4060; 4181
EcoRV	GAT!ATC	1	804
EcoT14I	C!CWWGG	8	95; 125; 548; 810; 2019; 2112; 2722; 3127
EcoT22I	ATGCA!T	3	1862; 1934; 4265
EcoT38I	GRGCY!C	6	38; 75; 685; 1481; 2655; 3365
Eco53kI	GAG!CTC	1	36
EgeI	GGC!GCC	2	246; 2291
EheI	GGC!GCC	2	246; 2291
ErhI	C!CWWGG	8	95; 125; 548; 810; 2019; 2112; 2722; 3127
EsaBC3I	TC!GA	18	33; 46; 59; 135; 174; 381; 799; 1440; 2131; 2404; 2560; 2584; 2620; 2782; 2973; 3018; 3273; 4111
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	21	99; 129; 219; 552; 639; 690; 814; 861; 1720; 1860; 1932; 2023; 2164; 2509; 2695; 2726; 2752; 3108; 3492; 4212; 4263
Fail	YA!TR	45	97; 127; 217; 550; 637; 688; 812; 859; 952; 962; 1028; 1073; 1278; 1706; 1718; 1849; 1858; 1921; 1930; 1954; 2021; 2045; 2162; 2226; 2507; 2532; 2693; 2724; 2750; 2822; 3038; 3106; 3184; 3236; 3397; 3414; 3416; 3418; 3490; 3768; 3957; 4073; 4146; 4210; 4261
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	1	2630
FalI	!NNNNNNNNNAAGNNNNNCTT	1	2598
FaqI	GGGACNNNNNNNNNN!	3	2441; 2973; 3082
FaqI	!NNNNNNNNNNNNNGTCCC	4	1806; 1878; 1942; 3237
FatI	!CATG	21	95; 125; 215; 548; 635; 686; 810; 857; 1716; 1856; 1928; 2019; 2160; 2505; 2691; 2722; 2748; 3104; 3488; 4208; 4259
FauI	CCCGCNNNN!	9	129; 382; 589; 827; 1612; 1967; 1988; 3184; 3316
FauI	!NNNNNGCGGG	7	62; 871; 1543; 2413; 2950; 3088; 3235
FauNDI	CA!TATG	0	
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	58
FmuI	GGNC!C	12	74; 75; 213; 684; 685; 888; 1400; 2809; 3254; 3300; 3358; 3391
Fnu4HI	GC!NGC	45	114; 141; 186; 213; 321; 360; 399; 406; 441; 519; 573; 606; 702; 833; 853; 899; 937; 1067; 1586; 1608; 1622; 2060; 2199; 2251; 2262; 2352; 2357; 2394; 2435; 2522; 2525; 2528; 2764; 2860; 2901; 2915; 3029; 3368; 3383; 3594; 3800; 3803; 3868; 4011; 4166
FokI	GGATGNNNNNNNNNN!	8	580; 784; 853; 894; 2157; 2614; 2639; 3093
FokI	!NNNNNNNNNNNNNCATCC	3	499; 640; 1963
FriOI	GRGCY!C	6	38; 75; 685; 1481; 2655; 3365
FseI	GGCCGG!CC	1	440
FspI	TGC!GCA	1	2392

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	10; 914; 945; 1139; 1557; 2113; 3128; 3462; 3715
FspEI	CCNNNNNNNNNNNN!	144	32; 80; 95; 130; 154; 168; 213; 234; 252; 267; 289; 313; 328; 346; 360; 381; 439; 454; 486; 516; 540; 559; 594; 633; 666; 682; 697; 712; 741; 763; 780; 795; 823; 869; 883; 901; 915; 950; 973; 1012; 1026; 1167; 1262; 1286; 1309; 1332; 1350; 1372; 1393; 1412; 1431; 1460; 1481; 1495; 1521; 1609; 1635; 1684; 1725; 1743; 1782; 1798; 1836; 1893; 1908; 1965; 1985; 1999; 2016; 2030; 2067; 2082; 2125; 2208; 2275; 2306; 2326; 2341; 2386; 2400; 2466; 2480; 2499; 2515; 2556; 2576; 2623; 2673; 2689; 2709; 2734; 2754; 2777; 2804; 2822; 2848; 2888; 2914; 2938; 2994; 3008; 3036; 3079; 3100; 3135; 3179; 3267; 3291; 3313; 3333; 3349; 3370; 3384; 3403; 3487; 3507; 3535; 3550; 3584; 3626; 3653; 3668; 3713; 3737; 3751; 3773; 3799; 3819; 3843; 3869; 3917; 3936; 3955; 3981; 4016; 4061; 4091; 4105; 4156; 4170; 4195; 4211; 4232; 4261
FspEI	!NNNNNNNNNNNNNNNGG	116	4; 46; 70; 98; 134; 163; 193; 227; 268; 290; 341; 376; 418; 445; 469; 517; 535; 554; 587; 607; 662; 691; 718; 754; 797; 817; 856; 900; 918; 961; 1061; 1130; 1160; 1238; 1287; 1309; 1337; 1373; 1418; 1447; 1483; 1502; 1530; 1550; 1613; 1636; 1744; 1776; 1794; 1823; 1866; 1895; 2006; 2035; 2078; 2099; 2127; 2160; 2180; 2205; 2232; 2257; 2279; 2307; 2333; 2354; 2405; 2426; 2444; 2492; 2528; 2584; 2609; 2633; 2662; 2685; 2709; 2735; 2757; 2776; 2801; 2841; 2877; 2942; 3027; 3051; 3080; 3114; 3135; 3155; 3200; 3227; 3246; 3279; 3331; 3362; 3389; 3441; 3539; 3610; 3655; 3716; 3781; 3815; 3841; 3859; 3895; 3965; 3988; 4010; 4034; 4067; 4115; 4150; 4168; 4225
Fsp4HI	GC!NGC	45	114; 141; 186; 213; 321; 360; 399; 406; 441; 519; 573; 606; 702; 833; 853; 899; 937; 1067; 1586; 1608; 1622; 2060; 2199; 2251; 2262; 2352; 2357; 2394; 2435; 2522; 2525; 2528; 2764; 2860; 2901; 2915; 3029; 3368; 3383; 3594; 3800; 3803; 3868; 4011; 4166
GdiII	C!GGCCR	3	438; 934; 2196
GdiII	Y!GGCCG	5	438; 934; 2196; 2761; 2788
GlaI	GC!GC	25	14; 246; 598; 651; 836; 1555; 1563; 1589; 1611; 1620; 1633; 1664; 2283; 2291; 2355; 2392; 2658; 2918; 3094; 3180; 3583; 3692; 3866; 3966; 4033
GluI	GC!NGC	45	114; 141; 186; 213; 321; 360; 399; 406; 441; 519; 573; 606; 702; 833; 853; 899; 937; 1067; 1586; 1608; 1622; 2060; 2199; 2251; 2262; 2352; 2357; 2394; 2435; 2522; 2525; 2528; 2764; 2860; 2901; 2915; 3029; 3368; 3383; 3594; 3800; 3803; 3868; 4011; 4166
GsaI	CCCAG!C	5	320; 665; 1837; 1909; 3908
GsaI	GCTGG!G	2	736; 2798
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3130
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3073
HaeI	WGG!CCW	5	2111; 2372; 3734; 4186; 4197
HaeII	RGCGC!Y	7	16; 248; 653; 1557; 1565; 2293; 3968
HaeIII	GG!CC	24	73; 116; 212; 436; 440; 683; 936; 1256; 1398; 2053; 2059; 2068; 2111; 2198; 2372; 2763; 2790; 3299; 3356; 3389; 3734; 4168; 4186; 4197
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	3	906; 965; 2486
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	872; 931; 2452
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	3	905; 964; 2485
HaeIV	!NNNNNNNGAYNNNNNRTC	3	874; 933; 2454
HapII	C!CGG	25	19; 75; 85; 149; 437; 473; 769; 782; 823; 1508; 2195; 2272; 2294; 2322; 2453; 2543; 2610; 2791; 3066; 3074; 3166; 3640; 3830; 3856; 4003
HgaI	GACGCNNNNN!	2	3000; 3079
HgaI	!NNNNNNNNNGCGTC	3	1623; 3518; 4096
HhaI	GCG!C	25	15; 247; 599; 652; 837; 1556; 1564; 1590; 1612; 1621; 1634; 1665; 2284; 2292; 2356; 2393; 2659; 2919; 3095; 3181; 3584; 3693; 3867; 3967; 4034
HinI	GR!CGYC	4	245; 2290; 2992; 3071
HinIII	CATG!	21	99; 129; 219; 552; 639; 690; 814; 861; 1720; 1860; 1932; 2023; 2164; 2509; 2695; 2726; 2752; 3108; 3492; 4212; 4263
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	905; 964; 2485
Hin4I	!NNNNNNNNGABNNNNNRTC	4	873; 932; 2453; 2483
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	4	905; 964; 2485; 2515
Hin4I	!NNNNNNNNGAYNNNNNVTC	3	873; 932; 2453

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin6I	G!CGC	25	13; 245; 597; 650; 835; 1554; 1562; 1588; 1610; 1619; 1632; 1663; 2282; 2290; 2354; 2391; 2657; 2917; 3093; 3179; 3582; 3691; 3865; 3965; 4032
HinP1I	G!CGC	25	13; 245; 597; 650; 835; 1554; 1562; 1588; 1610; 1619; 1632; 1663; 2282; 2290; 2354; 2391; 2657; 2917; 3093; 3179; 3582; 3691; 3865; 3965; 4032
HincII	GTY!RAC	2	59; 1053
HindII	GTY!RAC	2	59; 1053
HindIII	A!AGCTT	1	40
HinfI	G!ANTC	12	22; 941; 1333; 1355; 1765; 2775; 2909; 2961; 3019; 3056; 3838; 4234
HpaI	GTT!AAC	1	1053
HpaII	C!CGG	25	19; 75; 85; 149; 437; 473; 769; 782; 823; 1508; 2195; 2272; 2294; 2322; 2453; 2543; 2610; 2791; 3066; 3074; 3166; 3640; 3830; 3856; 4003
HphI	GGTGANNNNNNN!	4	474; 796; 3361; 3477
HphI	!NNNNNNNTCACC	6	138; 492; 570; 883; 1407; 2468
Hpy8I	GTN!NAC	7	59; 627; 1053; 1337; 1354; 1409; 3896
Hpy99I	CGWCG!	10	63; 109; 604; 2380; 2408; 2702; 2717; 2994; 3379; 4112
Hpy166II	GTN!NAC	7	59; 627; 1053; 1337; 1354; 1409; 3896
Hpy188I	TCN!GA	11	27; 1464; 2073; 2257; 2601; 2954; 3055; 3534; 3668; 4021; 4099
Hpy188III	TC!NNGA	27	31; 381; 565; 645; 762; 797; 799; 945; 1717; 1769; 2082; 2135; 2308; 2624; 2633; 2716; 2772; 2816; 2906; 2939; 3008; 3489; 3563; 3646; 3744; 3842; 3976
HpyAV	CCTTCNNNNNN!	8	264; 345; 597; 705; 768; 2935; 3042; 3721
HpyAV	!NNNNNGAAGG	7	1523; 2418; 3147; 3163; 3346; 3663; 3973
HpyCH4III	ACN!GT	11	63; 531; 889; 1381; 2670; 2786; 2894; 3217; 3708; 4178; 4249
HpyCH4IV	A!CGT	10	278; 410; 1350; 1362; 1405; 1515; 2406; 2593; 3374; 3507
HpyCH4V	TG!CA	24	54; 342; 408; 543; 639; 672; 775; 898; 1039; 1066; 1134; 1851; 1860; 1923; 1932; 2047; 2123; 2182; 2341; 2516; 2530; 3600; 3896; 4263
HpyF3I	C!TNAG	8	24; 271; 1770; 2072; 2953; 3402; 3525; 3934
HpyF10VI	GCNNNNN!NNGC	28	110; 149; 194; 242; 449; 581; 605; 832; 904; 1517; 1547; 1574; 1616; 1857; 1929; 1980; 2059; 2281; 2365; 2388; 2527; 2650; 2733; 3000; 3187; 3391; 3590; 4162
Hsp92I	GR!CGYC	4	245; 2290; 2992; 3071
Hsp92II	CATG!	21	99; 129; 219; 552; 639; 690; 814; 861; 1720; 1860; 1932; 2023; 2164; 2509; 2695; 2726; 2752; 3108; 3492; 4212; 4263
HspAI	G!CGC	25	13; 245; 597; 650; 835; 1554; 1562; 1588; 1610; 1619; 1632; 1663; 2282; 2290; 2354; 2391; 2657; 2917; 3093; 3179; 3582; 3691; 3865; 3965; 4032
KasI	G!GCGCC	2	244; 2289
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	67
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	70
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1053
Kzo9I	!GATC	28	27; 78; 131; 446; 494; 509; 561; 714; 793; 917; 930; 947; 2127; 2131; 2150; 2461; 2539; 2620; 2629; 2707; 3083; 3099; 3458; 3470; 3548; 3556; 3567; 3642
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	3	226; 2634; 2844
LpnI	RGC!GCV	7	14; 246; 651; 1555; 1563; 2291; 3966
LpnPI	CCDGNNNNNNNNNN!	62	32; 88; 130; 162; 262; 280; 330; 352; 450; 486; 553; 607; 675; 763; 782; 836; 883; 908; 1027; 1332; 1521; 1744; 1782; 1798; 1838; 1893; 1910; 2010; 2095; 2208; 2285; 2307; 2330; 2466; 2480; 2499; 2556; 2623; 2673; 2689; 2746; 2804; 3013; 3079; 3103; 3179; 3268; 3371; 3404; 3635; 3653; 3799; 3819; 3843; 3869; 3918; 4016; 4061; 4091; 4170; 4195; 4232
LpnPI	!NNNNNNNNNNNNNCHGG	53	4; 60; 134; 163; 193; 422; 458; 550; 718; 754; 808; 856; 1373; 1493; 1550; 1613; 1811; 1823; 1883; 1895; 2127; 2172; 2215; 2257; 2279; 2307; 2354; 2416; 2438; 2528; 2595; 2618; 2662; 2757; 2776; 2801; 2950; 3051; 3094; 3151; 3241; 3344; 3371; 3389; 3625; 3662; 3815; 3841; 3981; 3999; 4034; 4115; 4168
Lsp1109I	GCAGCNNNNNNN!	9	530; 584; 910; 1078; 2363; 2405; 2926; 3379; 3879

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Lsp1109I	!NNNNNNNNNNNGCTGC	8	392; 839; 1572; 2237; 2421; 2514; 3580; 3786
LweI	GCATCNNNNN!	10	152; 386; 674; 746; 1106; 1869; 1941; 2589; 2653; 2928
LweI	!NNNNNNNNNGATGC	5	762; 2248; 2503; 2719; 4111
MabI	A!CCWGGT	1	1879
MaeI	C!TAG	9	10; 914; 945; 1139; 1557; 2113; 3128; 3462; 3715
MaeII	A!CGT	10	278; 410; 1350; 1362; 1405; 1515; 2406; 2593; 3374; 3507
MaeIII	!GTNAC	10	889; 1078; 1579; 1591; 2410; 2716; 3406; 3672; 3788; 3851
MalI	GA!TC	28	29; 80; 133; 448; 496; 511; 563; 716; 795; 919; 932; 949; 2129; 2133; 2152; 2463; 2541; 2622; 2631; 2709; 3085; 3101; 3460; 3472; 3550; 3558; 3569; 3644
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1714; 2903
MbiI	GAG!CGG	4	113; 878; 1550; 2957
MboI	!GATC	28	27; 78; 131; 446; 494; 509; 561; 714; 793; 917; 930; 947; 2127; 2131; 2150; 2461; 2539; 2620; 2629; 2707; 3083; 3099; 3458; 3470; 3548; 3556; 3567; 3642
MboII	GAAGANNNNNNN!	7	243; 799; 1546; 1774; 2651; 2861; 3480
MboII	!NNNNNNNTCTTC	5	489; 2941; 3108; 3308; 3551
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1040
MflI	R!GATCY	10	27; 78; 793; 2461; 2707; 3099; 3458; 3470; 3556; 3567
MhII	GDGCH!C	16	38; 75; 199; 238; 472; 539; 685; 870; 1481; 2236; 2329; 2403; 2593; 2655; 3365; 3898
MIsI	TGG!CCA	1	2372
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2372
MlyI	GAGTCNNNNN!	2	1342; 1774
MlyI	!NNNNNGACTC	5	16; 935; 1349; 2955; 3832
Mly113I	GG!CGCC	2	245; 2290
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1383
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	3815; 3999
MnII	CCTCNNNNNNN!	7	1009; 2073; 2891; 3097; 3411; 3781; 4105
MnII	!NNNNNGAGG	17	186; 384; 426; 477; 702; 969; 1434; 1765; 2043; 2086; 2101; 2141; 2205; 2341; 2698; 3128; 4031
Mph1103I	ATGCA!T	3	1862; 1934; 4265
MreI	CG!CCGGCG	1	822
MroI	T!CCGGA	0	
MroNI	G!CCGGC	5	436; 822; 1507; 2790; 3073
MroXI	GAANN!NN TTC	1	334
MscI	TGG!CCA	1	2372
MseI	T!TAA	14	991; 1052; 1173; 1194; 1205; 1217; 1228; 1245; 1343; 1614; 3433; 3447; 3452; 3504
MslI	CAYNN!NNRTG	1	2727
MspI	C!CGG	25	19; 75; 85; 149; 437; 473; 769; 782; 823; 1508; 2195; 2272; 2294; 2322; 2453; 2543; 2610; 2791; 3066; 3074; 3166; 3640; 3830; 3856; 4003
Msp20I	TGG!CCA	1	2372
MspA1I	CMG!CKG	6	69; 320; 1788; 2396; 3625; 3870
MspCI	C!TTAAG	1	1172

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	220	22; 36; 49; 80; 97; 120; 133; 147; 161; 177; 190; 214; 228; 251; 275; 289; 323; 339; 355; 380; 393; 414; 444; 471; 485; 504; 519; 543; 559; 577; 593; 606; 633; 646; 673; 690; 715; 730; 745; 762; 780; 794; 809; 823; 848; 861; 875; 891; 907; 926; 950; 963; 978; 997; 1014; 1027; 1068; 1082; 1095; 1113; 1151; 1166; 1184; 1225; 1249; 1269; 1287; 1308; 1331; 1363; 1378; 1400; 1418; 1431; 1452; 1469; 1482; 1495; 1511; 1524; 1554; 1569; 1594; 1612; 1625; 1640; 1664; 1678; 1702; 1727; 1743; 1781; 1797; 1836; 1850; 1864; 1892; 1908; 1922; 1936; 1965; 1978; 1999; 2008; 2030; 2060; 2076; 2094; 2124; 2147; 2171; 2195; 2214; 2242; 2268; 2284; 2297; 2320; 2334; 2354; 2367; 2381; 2400; 2414; 2427; 2443; 2458; 2471; 2487; 2502; 2518; 2543; 2562; 2578; 2591; 2604; 2622; 2636; 2650; 2666; 2688; 2704; 2723; 2745; 2761; 2784; 2803; 2817; 2833; 2847; 2867; 2883; 2896; 2918; 2951; 2965; 2985; 2998; 3012; 3066; 3079; 3102; 3115; 3134; 3151; 3178; 3214; 3247; 3266; 3291; 3312; 3339; 3352; 3369; 3383; 3398; 3414; 3474; 3499; 3515; 3537; 3550; 3564; 3595; 3609; 3634; 3652; 3667; 3680; 3699; 3712; 3727; 3756; 3775; 3793; 3818; 3833; 3852; 3868; 3887; 3905; 3921; 3935; 3954; 3981; 4004; 4026; 4045; 4060; 4073; 4090; 4110; 4137; 4150; 4169; 4194; 4217; 4231; 4244; 4261
MspJI	!NNNNNNNNNNNNYNGG	182	5; 25; 54; 71; 94; 112; 135; 158; 188; 211; 235; 253; 270; 290; 311; 329; 360; 388; 405; 423; 445; 467; 493; 517; 535; 567; 584; 605; 622; 648; 673; 691; 715; 736; 754; 783; 805; 824; 844; 865; 888; 910; 931; 956; 1000; 1042; 1125; 1160; 1187; 1210; 1239; 1283; 1305; 1337; 1373; 1390; 1411; 1448; 1468; 1485; 1502; 1537; 1555; 1573; 1590; 1614; 1636; 1663; 1691; 1717; 1755; 1776; 1793; 1811; 1834; 1855; 1883; 1906; 1927; 1945; 1966; 1983; 2006; 2030; 2050; 2068; 2090; 2121; 2143; 2169; 2188; 2205; 2233; 2252; 2271; 2289; 2307; 2328; 2350; 2374; 2407; 2427; 2445; 2466; 2492; 2519; 2536; 2553; 2570; 2596; 2618; 2640; 2658; 2678; 2697; 2719; 2757; 2777; 2801; 2821; 2841; 2868; 2892; 2925; 2944; 2972; 2994; 3023; 3051; 3076; 3095; 3114; 3135; 3152; 3169; 3200; 3227; 3247; 3270; 3290; 3327; 3344; 3363; 3389; 3409; 3448; 3475; 3494; 3512; 3549; 3567; 3608; 3626; 3652; 3669; 3701; 3730; 3758; 3779; 3802; 3821; 3842; 3860; 3877; 3895; 3921; 3942; 3962; 3982; 4000; 4021; 4047; 4064; 4083; 4102; 4131; 4150; 4168; 4187; 4205; 4223; 4246
MspR9I	CC!NGG	17	75; 76; 769; 871; 1826; 1881; 1898; 2294; 2454; 2677; 3067; 3256; 3359; 3831; 4049; 4062; 4183
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1040
MvaI	CC!WGG	10	871; 1826; 1881; 1898; 2677; 3256; 3359; 4049; 4062; 4183
Mva1269I	GAATGCN!	1	1041
Mva1269I	G!CATTC	1	1134
MvnI	CG!CG	18	69; 443; 599; 704; 939; 1214; 1590; 1610; 1634; 1665; 2356; 2657; 3095; 3179; 3242; 3311; 3584; 4165
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	28	110; 149; 194; 242; 449; 581; 605; 832; 904; 1517; 1547; 1574; 1616; 1857; 1929; 1980; 2059; 2281; 2365; 2388; 2527; 2650; 2733; 3000; 3187; 3391; 3590; 4162
NaeI	GCC!GGC	5	438; 824; 1509; 2792; 3075
NarI	GG!CGCC	2	245; 2290
NciI	CC!SGG	7	75; 76; 769; 2294; 2454; 3067; 3831
NcoI	C!CATGG	6	95; 125; 548; 810; 2019; 2722
NdeI	CA!TATG	0	
NdeII	!GATC	28	27; 78; 131; 446; 494; 509; 561; 714; 793; 917; 930; 947; 1217; 2131; 2150; 2461; 2539; 2620; 2629; 2707; 3083; 3099; 3458; 3470; 3548; 3556; 3567; 3642
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	5	436; 822; 1507; 2790; 3073
NheI	G!CTAGC	0	
NlaIII	CATG!	21	99; 129; 219; 552; 639; 690; 814; 861; 1720; 1860; 1932; 2023; 2164; 2509; 2695; 2726; 2752; 3108; 3492; 4212; 4263
NlaIV	GGN!NCC	22	65; 73; 80; 153; 198; 246; 309; 471; 683; 1445; 1466; 1478; 1669; 1830; 1902; 2291; 2326; 3174; 3253; 3298; 4141; 4180

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NlaCI	CATCACNNNNNNNNNNNNNNNNNNNN!	4	168; 1122; 1437; 3029
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	262; 445; 4101
Nli3877I	CYCGR!G	5	35; 78; 206; 485; 801
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNNNN!	2	2079; 2515
NmeAIII	!NNNNNNNNNNNNNNNNNNNNCTCGGC	1	2044
NmeDI	RCCGGYNNNNNNN!	10	96; 160; 448; 484; 793; 834; 1519; 2621; 2802; 3085
NmeDI	!NNNNNNNNNNNNNRCCGGY	10	71; 135; 423; 459; 768; 809; 1494; 2596; 2777; 3060
NmuCI	!GTSAC	4	889; 1579; 2410; 2716
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2392
NsiI	ATGCA!T	3	1862; 1934; 4265
NspI	RCATG!Y	5	639; 1860; 1932; 2695; 4212
NspV	TT!CGAA	2	45; 2972
OliI	CACNN!NNGTG	0	
PabI	GTA!C	4	66; 389; 749; 2597
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1860; 1932; 2695
PaeR7I	C!TCGAG	2	31; 797
PagI	T!CATGA	2	1716; 3488
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3255; 3358
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2111
PciI	A!CATGT	1	4208
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	226; 2634; 2844
PcsI	WCGNNNN!NNNCGW	7	386; 2584; 2661; 2904; 2978; 3371; 3889
PctI	GAATGCN!	1	1041
PctI	G!CATTC	1	1134
PdiI	GCC!GGC	5	438; 824; 1509; 2792; 3075
PdmI	GAANN!NNTTC	1	334
PfeI	G!AWTC	5	2775; 2909; 3019; 3056; 4234
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2408
PfIMI	CCANNNN!NTGG	1	282
PfoI	T!CCNGGA	1	3065
PhoI	GG!CC	24	73; 116; 212; 436; 440; 683; 936; 1256; 1398; 2053; 2059; 2068; 2111; 2198; 2372; 2763; 2790; 3299; 3356; 3389; 3734; 4168; 4186; 4197
PinAI	A!CCGGT	1	84
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	2671
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2236; 2491
PleI	GAGTCNNNN!	2	1341; 1773
PleI	!NNNNNGACTC	5	16; 935; 1349; 2955; 3832
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	2	279; 411
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	2	279; 411
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1372
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3502
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3534
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1340
PpsI	GAGTCNNNN!	2	1341; 1773
PpsI	!NNNNNGACTC	5	16; 935; 1349; 2955; 3832
Ppu10I	A!TGCAT	3	1858; 1930; 4261
Ppu21I	YAC!GTR	4	279; 411; 1406; 2594
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4208
PshAI	GACN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	2	1073; 1278
Psp03I	GGWC!C	3	888; 2809; 3254
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	10	869; 1824; 1879; 1896; 2675; 3254; 3357; 4047; 4060; 4181

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	38
PspCI	CAC!GTG	2	279; 411
PspEI	G!GTNACC	0	
PspGI	!CCWGG	10	869; 1824; 1879; 1896; 2675; 3254; 3357; 4047; 4060; 4181
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	65; 73; 80; 153; 198; 246; 309; 471; 683; 1445; 1466; 1478; 1669; 1830; 1902; 2291; 2326; 3174; 3253; 3298; 4141; 4180
PspOMI	G!GGCCC	2	71; 681
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	2	2020; 3019
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2422
PspPI	G!GNCC	12	71; 72; 210; 681; 682; 885; 1397; 2806; 3251; 3297; 3355; 3388
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNNNN!	5	335; 680; 1843; 1915; 3421
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	1756; 2951
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNNGTANNNNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	684; 3391
PstI	CTGCA!G	3	56; 674; 900
PstNI	CAGNNN!CTG	2	3391; 3799
PsuI	R!GATCY	10	27; 78; 793; 2461; 2707; 3099; 3458; 3470; 3556; 3567
PsyI	GACN!NNGTC	1	2408
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1788; 2396
RcaI	T!CATGA	2	1716; 3488
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	2805
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RglI	GGCCGG!CC	1	440
RleAI	CCCACANNNNNNNNNNNNNNNN!	1	1019
RleAI	!NNNNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	2	416; 509
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	4	65; 388; 748; 2596
RsaNI	G!TAC	4	64; 387; 747; 2595
RseI	CAYNN!NNRTG	1	2727
RsrII	CG!GWCCG	1	2806
Rsr2I	CG!GWCCG	1	2806
SacI	GAGCT!C	1	38
SacII	CCGC!GG	1	70
SalI	G!TCGAC	1	57
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	226; 2634; 2844
SaqAI	T!TAA	14	991; 1052; 1173; 1194; 1205; 1217; 1228; 1245; 1343; 1614; 3433; 3447; 3452; 3504
SatI	GC!NGC	45	114; 141; 186; 213; 321; 360; 399; 406; 441; 519; 573; 606; 702; 833; 853; 899; 937; 1067; 1586; 1608; 1622; 2060; 2199; 2251; 2262; 2352; 2357; 2394; 2435; 2522; 2525; 2528; 2764; 2860; 2901; 2915; 3029; 3368; 3383; 3594; 3800; 3803; 3868; 4011; 4166
Sau96I	G!GNCC	12	71; 72; 210; 681; 682; 885; 1397; 2806; 3251; 3297; 3355; 3388
Sau3AI	!GATC	28	27; 78; 131; 446; 494; 509; 561; 714; 793; 917; 930; 947; 2127; 2131; 2150; 2461; 2539; 2620; 2629; 2707; 3083; 3099; 3458; 3470; 3548; 3556; 3567; 3642
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1342; 1774



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SchI	!NNNNNGACTC	5	16; 935; 1349; 2955; 3832
SciI	CTC!GAG	2	33; 799
ScrFI	CC!NGG	17	75; 76; 769; 871; 1826; 1881; 1898; 2294; 2454; 2677; 3067; 3256; 3359; 3831; 4049; 4062; 4183
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	5	897; 1868; 1940; 2109; 4051
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	888; 2445; 2930
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	16	38; 75; 199; 238; 472; 539; 685; 870; 1481; 2236; 2329; 2403; 2593; 2655; 3365; 3898
SelI	!CGCG	18	67; 441; 597; 702; 937; 1212; 1588; 1608; 1632; 1663; 2354; 2655; 3093; 3177; 3240; 3309; 3582; 4163
SetI	ASST!	56	38; 44; 179; 256; 269; 281; 313; 413; 418; 424; 464; 542; 577; 589; 619; 734; 980; 1001; 1010; 1022; 1071; 1238; 1353; 1365; 1408; 1445; 1495; 1518; 1642; 1790; 1885; 2078; 2191; 2319; 2398; 2409; 2481; 2552; 2596; 2856; 3002; 3046; 3377; 3408; 3467; 3510; 3653; 3674; 3773; 3910; 3925; 3944; 3956; 4000; 4046; 4097
SexAI	A!CCWGGT	1	1879
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	152; 386; 674; 746; 1106; 1869; 1941; 2589; 2653; 2928
SfaNI	!NNNNNNNNNGATGC	5	762; 2248; 2503; 2719; 4111
SfcI	C!TRYAG	7	52; 612; 670; 896; 1625; 3752; 3943
SfiI	GGCCNNNN!NGGCC	1	2065
SfoI	GGC!GCC	2	246; 2291
Sfr274I	C!TCGAG	2	31; 797
Sfr303I	CCGC!GG	1	70
SfuI	TT!CGAA	2	45; 2972
SgeI	CNNGNNNNNNNNNN!	180	6; 22; 43; 80; 97; 120; 133; 147; 161; 177; 190; 214; 228; 261; 279; 329; 351; 386; 402; 421; 444; 471; 485; 504; 519; 543; 561; 577; 593; 606; 633; 648; 674; 690; 715; 741; 762; 780; 794; 809; 823; 850; 870; 883; 907; 926; 950; 997; 1026; 1068; 1151; 1225; 1309; 1331; 1363; 1400; 1418; 1437; 1452; 1494; 1511; 1528; 1563; 1577; 1594; 1616; 1640; 1664; 1729; 1743; 1781; 1797; 1837; 1850; 1869; 1892; 1909; 1922; 1941; 1971; 1992; 2009; 2032; 2067; 2094; 2125; 2147; 2173; 2195; 2214; 2242; 2278; 2297; 2320; 2334; 2354; 2367; 2381; 2400; 2414; 2433; 2465; 2479; 2492; 2518; 2549; 2562; 2579; 2596; 2610; 2627; 2645; 2660; 2688; 2704; 2723; 2745; 2761; 2784; 2803; 2828; 2847; 2867; 2894; 2918; 2951; 2970; 2998; 3012; 3078; 3102; 3117; 3140; 3161; 3178; 3226; 3253; 3267; 3296; 3320; 3353; 3370; 3390; 3403; 3416; 3474; 3501; 3520; 3550; 3575; 3595; 3609; 3634; 3652; 3689; 3727; 3756; 3784; 3798; 3818; 3833; 3854; 3868; 3887; 3905; 3921; 3961; 3981; 4008; 4026; 4047; 4060; 4073; 4090; 4114; 4137; 4169; 4194; 4221; 4243
SgeI	!NNNNNNNNNNNNNCNNG	156	5; 25; 54; 71; 94; 112; 135; 160; 188; 211; 235; 253; 303; 325; 360; 388; 418; 445; 467; 493; 517; 535; 567; 584; 607; 631; 648; 673; 691; 715; 736; 754; 783; 805; 824; 844; 865; 888; 924; 971; 1000; 1042; 1125; 1199; 1283; 1305; 1337; 1374; 1392; 1411; 1468; 1485; 1502; 1537; 1555; 1575; 1595; 1614; 1638; 1703; 1755; 1811; 1843; 1866; 1883; 1915; 1945; 1966; 1983; 2006; 2041; 2068; 2099; 2121; 2147; 2169; 2188; 2216; 2252; 2271; 2294; 2315; 2333; 2350; 2374; 2407; 2439; 2466; 2492; 2523; 2553; 2570; 2596; 2619; 2640; 2662; 2682; 2702; 2719; 2758; 2777; 2802; 2821; 2841; 2868; 2892; 2925; 2944; 2972; 2994; 3052; 3076; 3095; 3114; 3135; 3152; 3200; 3227; 3247; 3270; 3294; 3327; 3344; 3364; 3390; 3448; 3475; 3494; 3524; 3549; 3569; 3608; 3626; 3663; 3701; 3730; 3758; 3779; 3807; 3828; 3861; 3879; 3935; 3955; 3982; 4000; 4021; 4047; 4064; 4088; 4111; 4143; 4168; 4195; 4217; 4246
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	822
SgrBI	CCGC!GG	1	70
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1437; 3224; 4017

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SimI	!GACCC	4	764; 2718; 3286; 3534
SinI	G!GWCC	3	885; 2806; 3251
SlaI	C!TCGAG	2	31; 797
SmaI	CCC!GGG	1	76
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	1	2727
SmlI	C!TYRAG	8	31; 37; 797; 1172; 2681; 3563; 3840; 4102
SmoI	C!TYRAG	8	31; 37; 797; 1172; 2681; 3563; 3840; 4102
SmuI	CCCGCNNNN!	9	129; 382; 589; 827; 1612; 1967; 1988; 3184; 3316
SmuI	!NNNNNNGCGGG	7	62; 871; 1543; 2413; 2950; 3088; 3235
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1860; 1932; 2695
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	47; 1040; 1104; 1182; 1208; 1219; 1866; 1938; 2030; 3448
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2111
SsiI	C!CGC	37	67; 122; 141; 213; 375; 426; 441; 516; 582; 699; 702; 820; 937; 1605; 1608; 1622; 1712; 1960; 1972; 1981; 1993; 2003; 2014; 2060; 2199; 2262; 2764; 2809; 2875; 2901; 3026; 3029; 3177; 3309; 3616; 3760; 4256
SsiI	G!CGG	31	69; 113; 185; 188; 320; 359; 398; 605; 826; 832; 878; 1550; 1577; 1665; 1775; 2356; 2420; 2521; 2524; 2804; 2859; 2957; 3095; 3242; 3382; 3625; 3870; 3991; 4010; 4137; 4165
SspI	AAT!ATT	2	1198; 1751
SspDI	G!GCGCC	2	244; 2289
SspD5I	GGTGANNNNNNNN!	4	474; 796; 3361; 3477
SspD5I	!NNNNNNNNNTCACC	6	137; 491; 569; 882; 1406; 2467
SstI	GAGCT!C	1	38
SstII	CCGC!GG	1	70
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	20	81; 128; 209; 381; 488; 588; 775; 826; 1489; 1611; 1966; 1987; 2300; 2703; 2842; 2913; 3183; 3315; 3545; 3983
Sth132I	!NNNNNNNNNCGGG	18	61; 669; 870; 1490; 1542; 1643; 2370; 2412; 2445; 2949; 3058; 3087; 3234; 3338; 3369; 3822; 3866; 4074
Sth302II	CC!GG	25	20; 76; 86; 150; 438; 474; 770; 783; 824; 1509; 2196; 2273; 2295; 2323; 2454; 2544; 2611; 2792; 3067; 3075; 3167; 3641; 3831; 3857; 4004
StrI	C!TCGAG	2	31; 797
StsI	GGATGNNNNNNNNNN!	8	581; 785; 854; 895; 2158; 2615; 2640; 3094
StsI	!NNNNNNNNNNNNNNCATCC	3	498; 639; 1962
StuI	AGG!CCT	1	2111
StyI	C!CWWGG	8	95; 125; 548; 810; 2019; 2112; 2722; 3127
StyD4I	!CCNGG	17	73; 74; 767; 869; 1824; 1879; 1896; 2292; 2452; 2675; 3065; 3254; 3357; 3829; 4047; 4060; 4181
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	11	63; 531; 889; 1381; 2670; 2786; 2894; 3217; 3708; 4178; 4249
TaiI	ACGT!	10	281; 413; 1353; 1365; 1408; 1518; 2409; 2596; 3377; 3510
TaqI	T!CGA	18	32; 45; 58; 134; 173; 380; 798; 1439; 2130; 2403; 2559; 2583; 2619; 2781; 2972; 3017; 3272; 4110
TaqII	GACCGANNNNNNNNNN!	3	1310; 2327; 2995
TaqII	!NNNNNNNNNTCGGTC	1	3239
TaqII	CACCCANNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	2	2194; 2786
TasI	!AATT	10	47; 1040; 1104; 1182; 1208; 1219; 1866; 1938; 2030; 3448
TatI	W!GTACW	0	
TauI	GCSG!C	27	116; 143; 188; 215; 323; 362; 401; 443; 608; 704; 835; 939; 1610; 1624; 2062; 2201; 2264; 2359; 2524; 2527; 2766; 2862; 2903; 3031; 3385; 4013; 4168
TfiI	G!AWTC	5	2775; 2909; 3019; 3056; 4234
TliI	C!TCGAG	2	31; 797
Tru1I	T!TAA	14	991; 1052; 1173; 1194; 1205; 1217; 1228; 1245; 1343; 1614; 3433; 3447; 3452; 3504
Tru9I	T!TAA	14	991; 1052; 1173; 1194; 1205; 1217; 1228; 1245; 1343; 1614; 3433; 3447; 3452; 3504

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TscAI	CASTGNN!	5	1136; 2419; 3529; 3800; 3813
TseI	G!CWGC	18	405; 518; 572; 852; 898; 1066; 1585; 2250; 2351; 2393; 2434; 2527; 2914; 3367; 3593; 3799; 3802; 3867
TsoI	TARCCANNNNNNNNNNN!	2	1262; 1609
TsoI	!NNNNNNNNNTGGYTA	2	1067; 2819
Tsp45I	!GTSAC	4	889; 1579; 2410; 2716
Tsp509I	!AATT	10	47; 1040; 1104; 1182; 1208; 1219; 1866; 1938; 2030; 3448
TspDTI	ATGAANNNNNNNNNNN!	4	244; 1048; 2349; 3053
TspDTI	!NNNNNNNNNTTCAT	3	2767; 3223; 3430
TspEI	!AATT	10	47; 1040; 1104; 1182; 1208; 1219; 1866; 1938; 2030; 3448
TspGWI	ACGGANNNNNNNNNNN!	1	3165
TspGWI	!NNNNNNNNNTCCGT	1	609
TspMI	C!CCGGG	1	74
TspRI	CASTGNN!	5	1136; 2419; 3529; 3800; 3813
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	1	121
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	1	153
TstI	!NNNNNNNCCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2408
Tth111II	CAARCANNNNNNNNNNN!	1	3617
Tth111III	!NNNNNNNNNTGYTTG	3	2725; 3585; 3624
UnbI	!GGNCC	12	70; 71; 209; 680; 681; 884; 1396; 2805; 3250; 3296; 3354; 3387
Van9II	CCANNNN!NTGG	1	282
Vha464I	C!TTAAG	1	1172
VneI	G!TGCAC	1	3894
VpaK11AI	!GGWCC	3	884; 2805; 3250
VpaK11BI	G!GWCC	3	885; 2806; 3251
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	47; 1104; 1208; 1219
XbaI	T!CTAGA	1	944
XceI	RCATG!Y	5	639; 1860; 1932; 2695; 4212
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	2	31; 797
XhoII	R!GATCY	10	27; 78; 793; 2461; 2707; 3099; 3458; 3470; 3556; 3567
XmaI	C!CCGGG	1	74
XmaJI	C!CTAGG	2	2112; 3127
XmiI	GT!MKAC	1	58
XmnI	GAANN!NNTTC	1	334
XspI	C!TAG	9	10; 914; 945; 1139; 1557; 2113; 3128; 3462; 3715
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	1862; 1934; 4265