

pmKate2-annexin vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2465; 2670
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	1	1578
AasI	GACNNNN!NNGTC	3	2753; 3709; 5498
AatI	AGG!CCT	2	1039; 3503
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1190
AccII	CG!CG	15	60; 2570; 2606; 2982; 3002; 3026; 3057; 3748; 4049; 4487; 4571; 4634; 4703; 4976; 5557
AccIII	T!CCGGA	1	1315
Acc16I	TGC!GCA	1	3784
Acc36I	ACCTGCNNNN!	2	3950; 4400
Acc36I	!NNNNNNNNGCAGGT	2	1578; 3569
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	8	465; 664; 724; 1447; 2140; 2835; 3681; 3716
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	3106; 4295
AccBSI	GAG!CGG	2	2942; 4349
AceIII	CAGCTCNNNNNNN!	1	2638
AceIII	!NNNNNNNNNNGAGCTG	3	552; 610; 1624
AciI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1485; 1493; 2997; 3000; 3014; 3104; 3352; 3364; 3373; 3385; 3395; 3406; 3452; 3591; 3654; 4156; 4201; 4267; 4293; 4418; 4421; 4569; 4701; 5008; 5152; 5648
AciI	G!CGG	27	370; 403; 528; 748; 758; 1070; 1112; 2942; 2969; 3057; 3167; 3748; 3812; 3913; 3916; 4196; 4251; 4349; 4487; 4634; 4774; 5017; 5262; 5383; 5402; 5529; 5557
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	2325; 2334; 3550; 3861; 4107; 4499; 4858; 4956; 5042
AclWI	!NNNNNGATCC	9	580; 1145; 1683; 1710; 2312; 3926; 4470; 4857; 4954
AcoI	Y!GGCCR	6	1268; 1352; 3588; 3762; 4153; 4180
AcsI	R!AATTY	5	1344; 1930; 2496; 2600; 2611
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	1120; 1579; 3828; 4260
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	1373; 5058
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	10	122; 175; 258; 444; 1187; 1460; 1609; 3682; 4384; 4463
AdeI	CACNNN!GTG	2	1260; 2798
AfaI	GT!AC	13	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1374; 2242; 2285; 3988
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	25	49; 721; 834; 1000; 1066; 1428; 1439; 1503; 1538; 1893; 2694; 3020; 3412; 3663; 4207; 4488; 4520; 4652; 4687; 4737; 4769; 5122; 5401; 5567; 5585
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	3	2192; 2568; 5600
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	12	687; 1137; 1398; 1765; 2017; 2053; 2217; 3093; 3137; 3147; 3560; 5136
AhdI	GACNNN!NNGTC	1	1560
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	1629
AjnI	!CCWGG	19	88; 281; 785; 833; 929; 944; 1073; 1502; 1691; 1880; 3216; 3271; 3288; 4067; 4646; 4749; 5439; 5452; 5573
AjuI	GAANNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNTTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AlcI	CACNN!NNGTG	1	613
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	3256; 3328
AlfI	!NNNNNNNNNGGCANNNNNNTGC	2	3222; 3294
AloI	GAACNNNNNTTCNNNNNNNNNNNN!	2	1011; 2764
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	2	979; 2732
AluI	AG!CT	23	566; 624; 651; 797; 1104; 1333; 1339; 1384; 1638; 1825; 2048; 2115; 2461; 2628; 2885; 3180; 3468; 3788; 4246; 5043; 5300; 5346; 5436
AluBI	AG!CT	23	566; 624; 651; 797; 1104; 1333; 1339; 1384; 1638; 1825; 2048; 2115; 2461; 2628; 2885; 3180; 3468; 3788; 4246; 5043; 5300; 5346; 5436
AlwI	GGATCNNNN!	9	2325; 2334; 3550; 3861; 4107; 4499; 4858; 4956; 5042
AlwI	!NNNNNGATCC	9	580; 1145; 1683; 1710; 2312; 3926; 4470; 4857; 4954
Alw21I	GWGCW!C	6	694; 1335; 1531; 3795; 3985; 5290
Alw26I	GTCTCN!	3	434; 1820; 2240
Alw26I	!NNNNNGAGAC	9	1042; 1231; 1863; 2214; 2264; 3106; 3524; 4543; 4671
Alw44I	G!TGCAC	2	690; 5286
AlwNI	CAGNNN!CTG	5	1277; 1422; 1887; 4783; 5191
Ama87I	C!YCGRG	2	1328; 2177
Aor13HI	T!CCGGA	1	1315
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	5	1639; 2105; 3250; 3322; 4784
ApaLI	G!TGCAC	2	690; 5286
ApeKI	G!CWGC	20	809; 953; 1251; 1384; 1638; 1676; 1743; 2458; 2977; 3642; 3743; 3785; 3826; 3919; 4306; 4759; 4985; 5191; 5194; 5259
ApoI	R!AATY	5	1344; 1930; 2496; 2600; 2611
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4197
ApyPI	!NNNNNNNNNNNNNNNNNGTTCGAT	3	3991; 4644; 5482
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4081
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	785
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	3	1736; 2328; 3510
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	1	1450
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	4252
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 975; 1125; 1151; 1325; 1509; 1689; 1716; 2318; 2327; 2340; 3520; 3524; 3543; 3854; 3932; 4013; 4022; 4100; 4476; 4492; 4851; 4863; 4941; 4949; 4960; 5035
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3800
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3504; 4519
AspEI	GACNN!NNGTC	1	1560
AspLEI	GCG!C	23	597; 1502; 1724; 2948; 2956; 2982; 3004; 3013; 3026; 3057; 3676; 3684; 3748; 3785; 4051; 4311; 4487; 4573; 4976; 5085; 5259; 5359; 5426
AspS9I	G!GNCC	15	83; 276; 760; 1003; 1095; 1116; 1646; 1703; 1884; 2789; 4198; 4643; 4689; 4747; 4780
AssI	AGT!ACT	1	2285
AsuII	TT!CGAA	2	1342; 4364
AsuC2I	CC!SGG	8	1184; 1701; 1953; 2206; 3686; 3846; 4459; 5223
AsuHPI	GGTANNNNNNNN!	8	376; 627; 996; 1602; 1938; 2269; 4753; 4869
AsuHPI	!NNNNNNNTCACC	4	885; 1957; 2799; 3860
AsuNHI	G!CTAGC	1	591

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AvaI	C!YCGRG	2	1328; 2177
AvaII	G!GWCC	4	1703; 1884; 4198; 4643
AviII	TGC!GCA	1	3784
AvrII	C!CTAGG	2	3504; 4519
AxyI	CC!TNAGG	5	869; 1423; 1709; 3162; 4794
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	9	667; 694; 727; 1304; 2143; 2211; 3628; 3721; 5290
BalI	TGG!CCA	3	1270; 1354; 3764
BamHI	G!GATCC	1	2317
BanI	G!GYRCC	8	465; 664; 724; 1447; 2140; 2835; 3681; 3716
BanII	GRGCY!C	5	1335; 1445; 2873; 4047; 4757
BanIII	AT!CGAT	2	2125; 3522
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	1161
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	1129
BasI	CCANNNN!NTGG	0	
BauI	C!ACGAG	3	1255; 4400; 5427
BauI	C!TCGTG	3	1105; 1864; 4274
BbeI	GGCGC!C	1	3685
Bbr7I	GAAGACNNNNNN!	4	916; 1149; 1217; 1468
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	4	911; 1144; 1212; 1463
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	3252; 3324; 4087
BbvI	GCAGCNNNNNNNN!	9	821; 1263; 1755; 2470; 3755; 3797; 4318; 4771; 5271
BbvI	!NNNNNNNNNNNGCTGC	10	940; 1371; 1625; 1663; 2964; 3629; 3813; 3906; 4972; 5178
Bbv12I	GWGCW!C	6	694; 1335; 1531; 3795; 3985; 5290
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	1002; 1540; 2812; 3376; 3902; 4404
BccI	!NNNNNGATGG	4	2163; 2780; 3560; 3988
BceAI	ACGGCNNNNNNNNNN!	6	822; 966; 1017; 1083; 4108; 4595
BceAI	!NNNNNNNNNNNGCCGT	3	2823; 3641; 5100
Bcefl	ACGGCNNNNNNNNNN!	6	822; 966; 1017; 1083; 4108; 4595
Bcefl	!NNNNNNNNNNNGCCGT	3	2824; 3642; 5101
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3111; 3901; 5402
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2339
BcnI	CC!SGG	8	1184; 1701; 1953; 2206; 3686; 3846; 4459; 5223
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	2362; 5535
BdaI	!NNNNNNNNNTGANNNNNNTCA	2	2328; 5501
BfaI	C!TAG	9	592; 1289; 2330; 2531; 2949; 3505; 4520; 4854; 5107
BfiI	ACTGGGNNNNN!	2	1306; 3631
BfiI	!NNNNCCCAGT	2	289; 3383
BfmI	C!TRYAG	5	2069; 2274; 3017; 5144; 5335
BfoI	RGCGC!Y	6	598; 1503; 2949; 2957; 3685; 5360
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	3111; 3901; 5402
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3950; 4400
BfuAI	!NNNNNNNGCAGGT	2	1578; 3569
BfuCI	!GATC	27	585; 974; 1124; 1150; 1324; 1508; 1688; 1715; 2317; 2326; 2339; 3519; 3523; 3542; 3853; 3931; 4012; 4021; 4099; 4475; 4491; 4850; 4862; 4940; 4948; 4959; 5034
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1079; 1093; 3457

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BglII	A!GATCT	1	1324
BisI	GC!NGC	37	759; 810; 954; 1071; 1252; 1385; 1639; 1677; 1744; 2459; 2978; 3000; 3014; 3452; 3591; 3643; 3654; 3744; 3749; 3786; 3827; 3914; 3917; 3920; 4156; 4252; 4293; 4307; 4421; 4760; 4775; 4986; 5192; 5195; 5260; 5403; 5558
BlnI	C!CTAGG	2	3504; 4519
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	37	760; 811; 955; 1072; 1253; 1386; 1640; 1678; 1745; 2460; 2979; 3001; 3015; 3453; 3592; 3644; 3655; 3745; 3750; 3787; 3828; 3915; 3918; 3921; 4157; 4253; 4294; 4308; 4422; 4761; 4776; 4987; 5193; 5196; 5261; 5404; 5559
BmcAI	AGT!ACT	1	2285
Bme18I	G!GWCC	4	1703; 1884; 4198; 4643
Bme1390I	CC!NGG	27	90; 283; 787; 835; 931; 946; 1075; 1184; 1504; 1693; 1701; 1882; 1953; 2206; 3218; 3273; 3290; 3686; 3846; 4069; 4459; 4648; 4751; 5223; 5441; 5454; 5575
BmeRI	GACNNN!NNGTC	1	1560
BmeT110I	C!YCGRG	2	1328; 2177
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	1629
BmgT120I	GG!NCC	15	84; 277; 761; 1004; 1096; 1117; 1647; 1704; 1885; 2790; 4199; 4644; 4690; 4748; 4781
BmiI	GGN!NCC	24	467; 666; 726; 1117; 1449; 1659; 1705; 1759; 1957; 2142; 2319; 2837; 2858; 2870; 3061; 3222; 3294; 3683; 3718; 4566; 4645; 4690; 5533; 5572
BmrI	ACTGGGNNNNN!	2	1306; 3631
BmrI	!NNNNCCCAGT	2	289; 3383
BmrFI	CC!NGG	27	90; 283; 787; 835; 931; 946; 1075; 1184; 1504; 1693; 1701; 1882; 1953; 2206; 3218; 3273; 3290; 3686; 3846; 4069; 4459; 4648; 4751; 5223; 5441; 5454; 5575
BmsI	GCATCNNNNN!	7	848; 2498; 3261; 3333; 3981; 4045; 4320
BmsI	!NNNNNNNNNNGATGC	11	357; 1001; 1169; 1401; 1848; 1866; 2046; 3640; 3895; 4111; 5503
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1306; 3631
BmuI	!NNNNCCCAGT	2	289; 3383
BoxI	GACNN!NNGTC	1	1243
BpiI	GAAGACNN!	4	911; 1144; 1212; 1463
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3471; 4370
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3439; 4338
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	1919; 2288; 4522
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	928; 4465
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1342; 4364
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	4	911; 1144; 1212; 1463
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4976; 5515
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	1159; 1319; 4058; 5217
BpuMI	CC!SGG	8	1184; 1701; 1953; 2206; 3686; 3846; 4459; 5223
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1042; 1231; 4671
Bsa29I	AT!CGAT	2	2125; 3522
BsaAI	YAC!GTR	3	340; 2798; 3986
BsaBI	GATNN!NNATC	2	2344; 3541
BsaHI	GR!CGYC	10	122; 175; 258; 444; 1187; 1460; 1609; 3682; 4384; 4463
BsaJI	C!CNNGG	24	360; 611; 698; 833; 834; 929; 1355; 1403; 1613; 1880; 3216; 3288; 3411; 3446; 3455; 3504; 3845; 4114; 4519; 4646; 4647; 4749; 4750; 5440
BsaMI	GAATGCN!	1	2433
BsaMI	G!CATTC	1	2526
BsaWI	W!CCGGW	7	600; 1315; 2323; 3713; 4557; 5247; 5394
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2762
BsaXI	!NNNNNNGGAGNNNNNGT	1	1361

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BsaXI	GGAGNNNNNGTNNNNNNNNNNNN!	1	1391
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	2732
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	1	1514
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2683; 4590
Bsc4I	CCNNNNN!NNGG	25	49; 721; 834; 1000; 1066; 1428; 1439; 1503; 1538; 1893; 2694; 3020; 3412; 3663; 4207; 4488; 4520; 4652; 4687; 4737; 4769; 5122; 5401; 5567; 5585
BscAI	GCATCNNNN!	7	847; 2497; 3260; 3332; 3980; 4044; 4319
BscAI	!NNNNNNNGATGC	11	360; 1004; 1172; 1404; 1851; 1869; 2049; 3643; 3898; 4114; 5506
BseI	ACTGGN!	5	1214; 1301; 3626; 3827; 5073
BseI	C!CAGT	5	295; 2711; 3389; 5185; 5198
Bse8I	GATNN!NNATC	2	2344; 3541
Bse21I	CC!TNAGG	5	869; 1423; 1709; 3162; 4794
Bse118I	R!CCGGY	6	600; 1660; 2899; 4001; 4182; 4465
BseAI	T!CCGGA	1	1315
BseBI	CC!WGG	19	90; 283; 787; 835; 931; 946; 1075; 1504; 1693; 1882; 3218; 3273; 3290; 4069; 4648; 4751; 5441; 5454; 5575
BseCI	AT!CGAT	2	2125; 3522
BseDI	C!CNNGG	24	360; 611; 698; 833; 834; 929; 1355; 1403; 1613; 1880; 3216; 3288; 3411; 3446; 3455; 3504; 3845; 4114; 4519; 4646; 4647; 4749; 4750; 5440
Bse3DI	GCAATGNN!	1	3915
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	7	1607; 1842; 1881; 3542; 3999; 4024; 4478
BseGI	!CATCC	5	694; 782; 839; 994; 3368
BseJI	GATNN!NNATC	2	2344; 3541
BseLI	CCNNNNN!NNGG	25	49; 721; 834; 1000; 1066; 1428; 1439; 1503; 1538; 1893; 2694; 3020; 3412; 3663; 4207; 4488; 4520; 4652; 4687; 4737; 4769; 5122; 5401; 5567; 5585
BseMI	GCAATGNN!	1	3915
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	1335; 4808
BseMII	!NNNNNNNNNCTGAG	9	860; 1414; 1561; 1700; 3153; 3455; 4336; 4908; 5317
BseNI	ACTGGN!	5	1214; 1301; 3626; 3827; 5073
BseNI	C!CAGT	5	295; 2711; 3389; 5185; 5198
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	3	1726; 2318; 3500
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGC!C	9	667; 694; 727; 1304; 2143; 2211; 3628; 3721; 5290
BseXI	GCAGCNNNNNNNN!	9	821; 1263; 1755; 2470; 3755; 3797; 4318; 4771; 5271
BseXI	!NNNNNNNNNNNGCTGC	10	940; 1371; 1625; 1663; 2964; 3629; 3813; 3906; 4972; 5178
BseX3I	C!GGCCG	1	3588
BseYI	C!CCAGC	4	1496; 3225; 3297; 5296
BseYI	G!CTGGG	2	1031; 4186
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	15	60; 2570; 2606; 2982; 3002; 3026; 3057; 3748; 4049; 4487; 4571; 4634; 4703; 4976; 5557
Bsh1285I	CGRY!CG	4	605; 752; 3591; 5266
BshFI	GG!CC	31	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1354; 1432; 1648; 1696; 2648; 2790; 3445; 3451; 3460; 3503; 3590; 3764; 4155; 4182; 4691; 4748; 4781; 5126; 5560; 5578; 5589
BshNI	G!GYRCC	8	465; 664; 724; 1447; 2140; 2835; 3681; 3716
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	2	2125; 3522
BsiEI	CGRY!CG	4	605; 752; 3591; 5266
BsiHKAI	GWGCW!C	6	694; 1335; 1531; 3795; 3985; 5290
BsiHKCI	C!YCGRG	2	1328; 2177
BsiSI	C!CGG	25	601; 1184; 1316; 1661; 1701; 1719; 1953; 2205; 2324; 2900; 3587; 3664; 3686; 3714; 3845; 3935; 4002; 4183; 4458; 4466; 4558; 5032; 5222; 5248; 5395
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	25	49; 721; 834; 1000; 1066; 1428; 1439; 1503; 1538; 1893; 2694; 3020; 3412; 3663; 4207; 4488; 4520; 4652; 4687; 4737; 4769; 5122; 5401; 5567; 5585
BsIFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1555; 1929; 3833; 4365; 4474

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BsI	!NNNNNNNNNNNNNGTCCC	4	3198; 3270; 3334; 4629
BsmI	GAATGCN!	1	2433
BsmI	G!CATTC	1	2526
BsmAI	GTCTCN!	3	434; 1820; 2240
BsmAI	!NNNNNGAGAC	9	1042; 1231; 1863; 2214; 2264; 3106; 3524; 4543; 4671
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNN!	8	175; 326; 494; 1555; 1929; 3833; 4365; 4474
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3198; 3270; 3334; 4629
BsnI	GG!CC	31	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1354; 1432; 1648; 1696; 2648; 2790; 3445; 3451; 3460; 3503; 3590; 3764; 4155; 4182; 4691; 4748; 4781; 5126; 5560; 5578; 5589
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	1042; 1231; 4671
BsoBI	C!YCGRG	2	1328; 2177
Bsp13I	T!CCGGA	1	1315
Bsp19I	C!CATGG	6	360; 611; 1355; 1403; 3411; 4114
Bsp24I	GACNNNNNNNTGGNNNNNNNNNNN!	2	289; 4485
Bsp24I	!NNNNNNNCCANNNNNNNGTC	2	4906; 5084
Bsp24I	CCANNNNNNGTCCNNNNNNNNNNNNN!	2	4938; 5116
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 4453
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1342; 4364
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	27	585; 974; 1124; 1150; 1324; 1508; 1688; 1715; 2317; 2326; 2339; 3519; 3523; 3542; 3853; 3931; 4012; 4021; 4099; 4475; 4491; 4850; 4862; 4940; 4948; 4959; 5034
Bsp1286I	GDGCH!C	17	667; 694; 727; 1304; 1335; 1445; 1531; 2143; 2211; 2873; 3628; 3721; 3795; 3985; 4047; 4757; 5290
Bsp1407I	T!GTACA	1	653
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1485; 1493; 2997; 3000; 3014; 3104; 3352; 3364; 3373; 3385; 3395; 3406; 3452; 3591; 3654; 4156; 4201; 4267; 4293; 4418; 4421; 4569; 4701; 5008; 5152; 5648
BspACI	G!CGG	27	370; 403; 528; 748; 758; 1070; 1112; 2942; 2969; 3057; 3167; 3748; 3812; 3913; 3916; 4196; 4251; 4349; 4487; 4634; 4774; 5017; 5262; 5383; 5402; 5529; 5557
BspCNI	CTCAGNNNNNNNNN!	2	1334; 4807
BspCNI	!NNNNNNNCTGAG	9	861; 1415; 1562; 1701; 3154; 3456; 4337; 4909; 5318
BspDI	AT!CGAT	2	2125; 3522
BspD6I	GACTCNNNN!	6	418; 1327; 2230; 2755; 4361; 5238
BspD6I	!NNNNNGAGTC	3	883; 2718; 3150
BspEI	T!CCGGA	1	1315
BspFNI	CG!CG	15	60; 2570; 2606; 2982; 3002; 3026; 3057; 3748; 4049; 4487; 4571; 4634; 4703; 4976; 5557
BspHI	T!CATGA	2	3108; 4880
BspLI	GGN!NCC	24	467; 666; 726; 1117; 1449; 1659; 1705; 1759; 1957; 2142; 2319; 2837; 2858; 2870; 3061; 3222; 3294; 3683; 3718; 4566; 4645; 4690; 5533; 5572
BspMI	ACCTGCNNNN!	2	3950; 4400
BspMI	!NNNNNNNNGCAGGT	2	1578; 3569
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	2325; 2334; 3550; 3861; 4107; 4499; 4858; 4956; 5042
BspPI	!NNNNNGATCC	9	580; 1145; 1683; 1710; 2312; 3926; 4470; 4857; 4954
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	4026; 4236
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1342; 4364
BspT107I	G!GYRCC	8	465; 664; 724; 1447; 2140; 2835; 3681; 3716
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1042; 1231; 4671
BsrI	ACTGGN!	5	1214; 1301; 3626; 3827; 5073
BsrI	C!CAGT	5	295; 2711; 3389; 5185; 5198
BsrBI	CCG!CTC	2	3106; 4295
BsrBI	GAG!CGG	2	2942; 4349

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrDI	GCAATGNN!	1	3915
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	600; 1660; 2899; 4001; 4182; 4465
BsrGI	T!GTACA	1	653
BsrSI	ACTGGN!	5	1214; 1301; 3626; 3827; 5073
BsrSI	C!CAGT	5	295; 2711; 3389; 5185; 5198
BssAI	R!CCGGY	6	600; 1660; 2899; 4001; 4182; 4465
BssECI	C!CNNGG	24	360; 611; 698; 833; 834; 929; 1355; 1403; 1613; 1880; 3216; 3288; 3411; 3446; 3455; 3504; 3845; 4114; 4519; 4646; 4647; 4749; 4750; 5440
BssHII	G!CGCGC	0	
BssKI	!CCNGG	27	88; 281; 785; 833; 929; 944; 1073; 1182; 1502; 1691; 1699; 1880; 1951; 2204; 3216; 3271; 3288; 3684; 3844; 4067; 4457; 4646; 4749; 5221; 5439; 5452; 5573
BssMI	!GATC	27	585; 974; 1124; 1150; 1324; 1508; 1688; 1715; 2317; 2326; 2339; 3519; 3523; 3542; 3853; 3931; 4012; 4021; 4099; 4475; 4491; 4850; 4862; 4940; 4948; 4959; 5034
BssNI	GR!CGYC	10	122; 175; 258; 444; 1187; 1460; 1609; 3682; 4384; 4463
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1255; 4400; 5427
BssSI	C!TCGTG	3	1105; 1864; 4274
BssT1I	C!CWWGG	8	360; 611; 1355; 1403; 3411; 3504; 4114; 4519
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	3149; 4026; 4236
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 1187; 1460; 1609; 3682; 4384; 4463
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	5	1638; 2104; 3249; 3321; 4783
BstAUI	T!GTACA	1	653
BstBI	TT!CGAA	2	1342; 4364
Bst2BI	C!ACGAG	3	1255; 4400; 5427
Bst2BI	C!TCGTG	3	1105; 1864; 4274
BstBAI	YAC!GTR	3	340; 2798; 3986
Bst4CI	ACN!GT	17	76; 198; 269; 543; 581; 669; 1377; 1617; 1941; 2773; 4062; 4178; 4286; 4609; 5100; 5570; 5641
BstC8I	GCN!NGC	33	86; 279; 593; 622; 712; 916; 1662; 2066; 2901; 2944; 2958; 3231; 3250; 3303; 3322; 3576; 3762; 3981; 4047; 4053; 4081; 4085; 4126; 4130; 4184; 4467; 4654; 4701; 4757; 4779; 4990; 5550; 5587
BstDEI	C!TNAG	12	869; 1166; 1321; 1423; 1570; 1709; 3162; 3464; 4345; 4794; 4917; 5326
BstDSI	C!CRYGG	7	360; 611; 1355; 1403; 1613; 3411; 4114
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	2	1426; 1891
BstF5I	GGATGNN!	7	1607; 1842; 1881; 3542; 3999; 4024; 4478
BstF5I	!CATCC	5	694; 782; 839; 994; 3368
BstFNI	CG!CG	15	60; 2570; 2606; 2982; 3002; 3026; 3057; 3748; 4049; 4487; 4571; 4634; 4703; 4976; 5557
BstH2I	RGCGC!Y	6	598; 1503; 2949; 2957; 3685; 5360
BstHHI	GCG!C	23	597; 1502; 1724; 2948; 2956; 2982; 3004; 3013; 3026; 3057; 3676; 3684; 3748; 3785; 4051; 4311; 4487; 4573; 4976; 5085; 5259; 5359; 5426
BstKTI	GAT!C	27	588; 977; 1127; 1153; 1327; 1511; 1691; 1718; 2320; 2329; 2342; 3522; 3526; 3545; 3856; 3934; 4015; 4024; 4102; 4478; 4494; 4853; 4865; 4943; 4951; 4962; 5037
BstMAI	GTCTCN!	3	434; 1820; 2240
BstMAI	!NNNNGAGAC	9	1042; 1231; 1863; 2214; 2264; 3106; 3524; 4543; 4671
BstMBI	!GATC	27	585; 974; 1124; 1150; 1324; 1508; 1688; 1715; 2317; 2326; 2339; 3519; 3523; 3542; 3853; 3931; 4012; 4021; 4099; 4475; 4491; 4850; 4862; 4940; 4948; 4959; 5034
BstMCI	CGRY!CG	4	605; 752; 3591; 5266
BstMWI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 648; 1079; 1093; 1535; 1617; 1638; 2065; 2104; 2909; 2939; 2966; 3008; 3249; 3321; 3372; 3451; 3673; 3757; 3780; 3919; 4042; 4125; 4392; 4579; 4783; 4982; 5554

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstNI	CC!WGG	19	90; 283; 787; 835; 931; 946; 1075; 1504; 1693; 1882; 3218; 3273; 3290; 4069; 4648; 4751; 5441; 5454; 5575
BstNSI	RCATG!Y	7	642; 1978; 2196; 3252; 3324; 4087; 5604
BstOI	CC!WGG	19	90; 283; 787; 835; 931; 946; 1075; 1504; 1693; 1882; 3218; 3273; 3290; 4069; 4648; 4751; 5441; 5454; 5575
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1243
BstSCI	!CCNGG	27	88; 281; 785; 833; 929; 944; 1073; 1182; 1502; 1691; 1699; 1880; 1951; 2204; 3216; 3271; 3288; 3684; 3844; 4067; 4457; 4646; 4749; 5221; 5439; 5452; 5573
BstSFI	C!TRYAG	5	2069; 2274; 3017; 5144; 5335
BstSLI	GKGCMI!C	9	667; 694; 727; 1304; 2143; 2211; 3628; 3721; 5290
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	15	60; 2570; 2606; 2982; 3002; 3026; 3057; 3748; 4049; 4487; 4571; 4634; 4703; 4976; 5557
Bst2UI	CC!WGG	19	90; 283; 787; 835; 931; 946; 1075; 1504; 1693; 1882; 3218; 3273; 3290; 4069; 4648; 4751; 5441; 5454; 5575
BstVII	GCAGCNNNNNNNN!	9	821; 1263; 1755; 2470; 3755; 3797; 4318; 4771; 5271
BstVII	!NNNNNNNNNNNNGCTGC	10	940; 1371; 1625; 1663; 2964; 3629; 3813; 3906; 4972; 5178
BstV2I	GAAGACNN!	4	911; 1144; 1212; 1463
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	14	585; 1150; 1324; 1688; 1715; 2317; 2326; 3853; 4099; 4491; 4850; 4862; 4948; 4959
BstYI	R!GATCY	14	585; 1150; 1324; 1688; 1715; 2317; 2326; 3853; 4099; 4491; 4850; 4862; 4948; 4959
BstZI	C!GGCCG	1	3588
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3111; 3901; 5402
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	2	2125; 3522
Bsu36I	CC!TNAGG	5	869; 1423; 1709; 3162; 4794
BsuRI	GG!CC	31	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1354; 1432; 1648; 1696; 2648; 2790; 3445; 3451; 3460; 3503; 3590; 3764; 4155; 4182; 4691; 4748; 4781; 5126; 5560; 5578; 5589
BsuTUI	AT!CGAT	2	2125; 3522
BtgI	C!CRYGG	7	360; 611; 1355; 1403; 1613; 3411; 4114
BtgZI	GCGATGNNNNNNNNNN!	2	2799; 4134
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3953; 4297
BthCI	GCNG!C	37	761; 812; 956; 1073; 1254; 1387; 1641; 1679; 1746; 2461; 2980; 3002; 3016; 3454; 3593; 3645; 3656; 3746; 3751; 3788; 3829; 3916; 3919; 3922; 4158; 4254; 4295; 4309; 4423; 4762; 4777; 4988; 5194; 5197; 5262; 5405; 5560
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	1629
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2521
BtsCI	GGATGNN!	7	1607; 1842; 1881; 3542; 3999; 4024; 4478
BtsCI	!CATCC	5	694; 782; 839; 994; 3368
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3950; 4400
BveI	!NNNNNNNNGCAGGT	2	1578; 3569
Cac8I	GCN!NGC	33	86; 279; 593; 622; 712; 916; 1662; 2066; 2901; 2944; 2958; 3231; 3250; 3303; 3322; 3576; 3762; 3981; 4047; 4053; 4081; 4085; 4126; 4130; 4184; 4467; 4654; 4701; 4757; 4779; 4990; 5550; 5587
CaiI	CAGNNN!CTG	5	1277; 1422; 1887; 4783; 5191
CciI	T!CATGA	2	3108; 4880
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 1536; 1790; 3971; 3976; 4174; 4315
CdiI	C!GATG	6	1452; 1857; 2126; 2145; 2785; 4120
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5554
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3343; 3385
CelII	GC!TNAGC	0	
CfoI	GCG!C	23	597; 1502; 1724; 2948; 2956; 2982; 3004; 3013; 3026; 3057; 3676; 3684; 3748; 3785; 4051; 4311; 4487; 4573; 4976; 5085; 5259; 5359; 5426

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CfrI	Y!GGCCR	6	1268; 1352; 3588; 3762; 4153; 4180
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	6	600; 1660; 2899; 4001; 4182; 4465
Cfr13I	G!GNCC	15	83; 276; 760; 1003; 1095; 1116; 1646; 1703; 1884; 2789; 4198; 4643; 4689; 4747; 4780
Cfr42I	CCGC!GG	0	
ChaI	GATC!	27	589; 978; 1128; 1154; 1328; 1512; 1692; 1719; 2321; 2330; 2343; 3523; 3527; 3546; 3857; 3935; 4016; 4025; 4103; 4479; 4495; 4854; 4866; 4944; 4952; 4963; 5038
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNN!	7	706; 1389; 1906; 3499; 4939; 5039; 5117
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 3166; 3261; 4453; 5003; 5558
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 3200; 3295; 4487; 5037; 5592
CjeI	!NNNNNNNNCCANNNNNNGT	7	672; 1355; 1872; 3465; 4905; 5005; 5083
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	4939; 5117
CjePI	!NNNNNNNNGANNNNNNNTGG	7	257; 1076; 1835; 1894; 2211; 4453; 5052
CjePI	GANNNNNNNTGGNNNNNNNNNNNNN!	7	290; 1109; 1868; 1927; 2244; 4486; 5085
CjePI	!NNNNNNNNCCANNNNNNNTC	2	4906; 5084
Clal	AT!CGAT	2	2125; 3522
CpoI	CG!GWCCG	1	4198
CseI	GACGCNNNNN!	5	526; 1468; 1617; 4392; 4471
CseI	!NNNNNNNNNGCGTC	5	1176; 1461; 3015; 4910; 5488
CsiI	A!CCWGGT	1	3271
CspI	CG!GWCCG	1	4198
Csp6I	G!TAC	13	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1373; 2241; 2284; 3987
Csp45I	TT!CGAA	2	1342; 4364
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNN!	5	656; 1247; 1392; 2962; 4571
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	31	301; 361; 612; 639; 645; 657; 735; 801; 881; 1092; 1356; 1404; 1434; 1650; 1794; 1975; 2082; 2193; 3109; 3249; 3321; 3412; 3553; 3898; 4084; 4115; 4141; 4497; 4881; 5601; 5652
CviJI	RG!CY	111	42; 84; 93; 277; 566; 624; 651; 714; 761; 790; 797; 875; 941; 953; 1004; 1031; 1039; 1073; 1087; 1096; 1104; 1118; 1228; 1264; 1270; 1333; 1339; 1354; 1384; 1432; 1443; 1519; 1638; 1648; 1660; 1676; 1696; 1730; 1760; 1825; 1897; 2048; 2068; 2115; 2135; 2351; 2461; 2628; 2648; 2790; 2871; 2885; 2899; 3180; 3221; 3293; 3416; 3445; 3451; 3460; 3468; 3491; 3503; 3509; 3590; 3607; 3615; 3642; 3667; 3751; 3760; 3764; 3788; 3826; 3902; 3919; 3938; 4001; 4045; 4055; 4072; 4155; 4182; 4186; 4223; 4246; 4262; 4442; 4469; 4530; 4652; 4691; 4748; 4755; 4762; 4781; 4792; 5043; 5072; 5115; 5126; 5191; 5270; 5295; 5300; 5346; 5436; 5534; 5560; 5578; 5589
CviKI-1	RG!CY	111	42; 84; 93; 277; 566; 624; 651; 714; 761; 790; 797; 875; 941; 953; 1004; 1031; 1039; 1073; 1087; 1096; 1104; 1118; 1228; 1264; 1270; 1333; 1339; 1354; 1384; 1432; 1443; 1519; 1638; 1648; 1660; 1676; 1696; 1730; 1760; 1825; 1897; 2048; 2068; 2115; 2135; 2351; 2461; 2628; 2648; 2790; 2871; 2885; 2899; 3180; 3221; 3293; 3416; 3445; 3451; 3460; 3468; 3491; 3503; 3509; 3590; 3607; 3615; 3642; 3667; 3751; 3760; 3764; 3788; 3826; 3902; 3919; 3938; 4001; 4045; 4055; 4072; 4155; 4182; 4186; 4223; 4246; 4262; 4442; 4469; 4530; 4652; 4691; 4748; 4755; 4762; 4781; 4792; 5043; 5072; 5115; 5126; 5191; 5270; 5295; 5300; 5346; 5436; 5534; 5560; 5578; 5589
CviQI	G!TAC	13	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1373; 2241; 2284; 3987
DdeI	C!TNAG	12	869; 1166; 1321; 1423; 1570; 1709; 3162; 3464; 4345; 4794; 4917; 5326
DinI	GGC!GCC	1	3683
DpnI	GA!TC	27	587; 976; 1126; 1152; 1326; 1510; 1690; 1717; 2319; 2328; 2341; 3521; 3525; 3544; 3855; 3933; 4014; 4023; 4101; 4477; 4493; 4852; 4864; 4942; 4950; 4961; 5036
DpnII	!GATC	27	585; 974; 1124; 1150; 1324; 1508; 1688; 1715; 2317; 2326; 2339; 3519; 3523; 3542; 3853; 3931; 4012; 4021; 4099; 4475; 4491; 4850; 4862; 4940; 4948; 4959; 5034

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DraI	TTT!AAA	3	2384; 4826; 4845
DraII	RG!GNCCY	2	1884; 4780
DraIII	CACNNN!GTG	2	1260; 2798
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	2	266; 5162
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCTTG	1	1455
DrdI	GACNNN!NNGTC	3	2753; 3709; 5498
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	1	1560
DseDI	GACNNN!NNGTC	3	2753; 3709; 5498
EaeI	Y!GGCCR	6	1268; 1352; 3588; 3762; 4153; 4180
EagI	C!GGCCG	1	3588
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	3149; 4026; 4236
Eam1105I	GACNNN!NNGTC	1	1560
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	3149; 4026; 4236
EciI	GGCGGANNNNNNNNNNNN!	4	3182; 4211; 5398; 5544
EciI	!NNNNNNNNNTCCGCC	4	496; 3353; 3374; 3395
Ecl136II	GAG!CTC	1	1333
EclXI	C!GGCCG	1	3588
Eco24I	GRGCY!C	5	1335; 1445; 2873; 4047; 4757
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGAGACC	3	1042; 1231; 4671
Eco32I	GAT!ATC	2	2000; 2202
Eco47I	G!GWCC	4	1703; 1884; 4198; 4643
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	3588
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	1120; 1579; 3828; 4260
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	2	1373; 5058
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	5	869; 1423; 1709; 3162; 4794
Eco88I	C!YCGRG	2	1328; 2177
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	8	360; 611; 1355; 1403; 3411; 3504; 4114; 4519
Eco147I	AGG!CCT	2	1039; 3503
EcoHI	!CCSGG	8	1182; 1699; 1951; 2204; 3684; 3844; 4457; 5221
EcoICRI	GAG!CTC	1	1333
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	7	1120; 1579; 1919; 2288; 3828; 4260; 4522
Eco57MI	!NNNNNNNNNNNNNNNNCTYCAG	4	928; 1373; 4465; 5058
EcoNI	CCTNN!NNNAGG	2	1426; 1891
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	1884; 4780
EcoRI	G!AATTC	1	1344
EcoRII	!CCWGG	19	88; 281; 785; 833; 929; 944; 1073; 1502; 1691; 1880; 3216; 3271; 3288; 4067; 4646; 4749; 5439; 5452; 5573
EcoRV	GAT!ATC	2	2000; 2202
EcoT14I	C!CWWGG	8	360; 611; 1355; 1403; 3411; 3504; 4114; 4519
EcoT22I	ATGCA!T	3	3254; 3326; 5657
EcoT38I	GRGCY!C	5	1335; 1445; 2873; 4047; 4757
Eco53kI	GAG!CTC	1	1333
EgeI	GGC!GCC	1	3683
EheI	GGC!GCC	1	3683
ErhI	C!CWWGG	8	360; 611; 1355; 1403; 3411; 3504; 4114; 4519
EsaBC3I	TC!GA	19	753; 780; 1248; 1330; 1343; 1584; 2126; 2179; 2832; 3523; 3796; 3952; 3976; 4012; 4174; 4365; 4410; 4665; 5503
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNGAGACG	0	
FaeI	CATG!	31	304; 364; 615; 642; 648; 660; 738; 804; 884; 1095; 1359; 1407; 1437; 1653; 1797; 1978; 2085; 2196; 3112; 3252; 3324; 3415; 3556; 3901; 4087; 4118; 4144; 4500; 4884; 5604; 5655

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FaI	YA!TR	79	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 640; 646; 658; 736; 802; 882; 900; 1093; 1146; 1196; 1351; 1357; 1405; 1435; 1625; 1651; 1726; 1751; 1795; 1892; 1976; 2071; 2083; 2100; 2120; 2194; 2228; 2344; 2354; 2420; 2465; 2670; 3098; 3110; 3241; 3250; 3313; 3322; 3346; 3413; 3437; 3554; 3618; 3899; 3924; 4085; 4116; 4142; 4214; 4430; 4498; 4576; 4628; 4789; 4806; 4808; 4810; 4882; 5160; 5349; 5465; 5538; 5602; 5653
FaII	AAGNNNNNCTTNNNNNNNNNNNN!	3	879; 2305; 4022
FaII	!NNNNNNNNAAGNNNNNCTT	3	847; 2273; 3990
FaqI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1555; 1929; 3833; 4365; 4474
FaqI	!NNNNNNNNNNNNNGTCCC	4	3198; 3270; 3334; 4629
FatI	!CATG	31	300; 360; 611; 638; 644; 656; 734; 800; 880; 1091; 1355; 1403; 1433; 1649; 1793; 1974; 2081; 2192; 3108; 3248; 3320; 3411; 3552; 3897; 4083; 4114; 4140; 4496; 4880; 5600; 5651
FauI	CCCGCNNNN!	10	93; 119; 286; 1068; 1170; 3004; 3359; 3380; 4576; 4708
FauI	!NNNNNNNGCGGG	6	1105; 2935; 3805; 4342; 4480; 4627
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2339
FbII	GT!MKAC	1	1190
FmuI	GGNC!C	15	86; 279; 763; 1006; 1098; 1119; 1649; 1706; 1887; 2792; 4201; 4646; 4692; 4750; 4783
Fnu4HI	GC!NGC	37	759; 810; 954; 1071; 1252; 1385; 1639; 1677; 1744; 2459; 2978; 3000; 3014; 3452; 3591; 3643; 3654; 3744; 3749; 3786; 3827; 3914; 3917; 3920; 4156; 4252; 4293; 4307; 4421; 4760; 4775; 4986; 5192; 5195; 5260; 5403; 5558
FokI	GGATGNNNNNNNN!	7	1614; 1849; 1888; 3549; 4006; 4031; 4485
FokI	!NNNNNNNNNNNNNCATCC	5	681; 769; 826; 981; 3355
FriOI	GRGCY!C	5	1335; 1445; 2873; 4047; 4757
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3784
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1289; 2330; 2531; 2949; 3505; 4520; 4854; 5107
FspEI	CCNNNNNNNNNNNN!	176	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 681; 711; 728; 742; 775; 789; 807; 831; 846; 876; 909; 936; 951; 970; 1006; 1053; 1072; 1087; 1101; 1132; 1155; 1175; 1196; 1242; 1284; 1300; 1329; 1368; 1416; 1434; 1464; 1489; 1506; 1533; 1570; 1625; 1662; 1693; 1710; 1732; 1749; 1774; 1813; 1893; 1965; 1981; 2157; 2218; 2334; 2365; 2404; 2418; 2559; 2654; 2678; 2701; 2724; 2742; 2764; 2785; 2804; 2823; 2852; 2873; 2887; 2913; 3001; 3027; 3076; 3117; 3135; 3174; 3190; 3228; 3285; 3300; 3357; 3377; 3391; 3408; 3422; 3459; 3474; 3517; 3600; 3667; 3698; 3718; 3733; 3778; 3792; 3858; 3872; 3891; 3907; 3948; 3968; 4015; 4065; 4081; 4101; 4126; 4146; 4169; 4196; 4214; 4240; 4280; 4306; 4330; 4386; 4400; 4428; 4471; 4492; 4527; 4571; 4659; 4683; 4705; 4725; 4741; 4762; 4776; 4795; 4879; 4899; 4927; 4942; 4976; 5018; 5045; 5060; 5105; 5129; 5143; 5165; 5191; 5211; 5235; 5261; 5309; 5328; 5347; 5373; 5408; 5453; 5483; 5497; 5548; 5562; 5587; 5603; 5624; 5653
FspEI	!NNNNNNNNNNNNNNGG	160	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 616; 643; 685; 706; 730; 772; 791; 820; 856; 893; 916; 935; 965; 986; 1013; 1052; 1078; 1097; 1169; 1195; 1243; 1282; 1301; 1336; 1355; 1376; 1410; 1430; 1489; 1520; 1559; 1582; 1600; 1629; 1657; 1678; 1696; 1736; 1795; 1814; 1837; 1858; 1879; 1897; 1938; 1980; 2027; 2050; 2070; 2116; 2155; 2182; 2213; 2239; 2262; 2285; 2309; 2353; 2453; 2522; 2630; 2679; 2701; 2729; 2765; 2810; 2839; 2875; 2894; 2922; 2942; 3005; 3028; 3136; 3168; 3186; 3215; 3258; 3287; 3398; 3427; 3470; 3491; 3519; 3552; 3572; 3597; 3624; 3649; 3671; 3699; 3725; 3746; 3797; 3818; 3836; 3884; 3920; 3976; 4001; 4025; 4054; 4077; 4101; 4127; 4149; 4168; 4193; 4233; 4269; 4334; 4419; 4443; 4472; 4506; 4527; 4547; 4592; 4619; 4638; 4671; 4723; 4754; 4781; 4833; 4931; 5002; 5047; 5108; 5173; 5207; 5233; 5251; 5287; 5357; 5380; 5402; 5426; 5459; 5507; 5542; 5560; 5617
Fsp4HI	GC!NGC	37	759; 810; 954; 1071; 1252; 1385; 1639; 1677; 1744; 2459; 2978; 3000; 3014; 3452; 3591; 3643; 3654; 3744; 3749; 3786; 3827; 3914; 3917; 3920; 4156; 4252; 4293; 4307; 4421; 4760; 4775; 4986; 5192; 5195; 5260; 5403; 5558

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GdiII	C!GGCCR	1	3588
GdiII	Y!GGCCG	3	3588; 4153; 4180
GlaI	GC!GC	23	596; 1501; 1723; 2947; 2955; 2981; 3003; 3012; 3025; 3056; 3675; 3683; 3747; 3784; 4050; 4310; 4486; 4572; 4975; 5084; 5258; 5358; 5425
GluI	GC!NGC	37	759; 810; 954; 1071; 1252; 1385; 1639; 1677; 1744; 2459; 2978; 3000; 3014; 3452; 3591; 3643; 3654; 3744; 3749; 3786; 3827; 3914; 3917; 3920; 4156; 4252; 4293; 4307; 4421; 4760; 4775; 4986; 5192; 5195; 5260; 5403; 5558
GsaI	CCCAG!C	4	1500; 3229; 3301; 5300
GsaI	GCTGG!G	2	1035; 4190
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	1919; 2288; 4522
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	928; 4465
HaeI	WGG!CCW	10	1039; 1270; 1354; 1432; 1696; 3503; 3764; 5126; 5578; 5589
HaeII	RGCGC!Y	6	598; 1503; 2949; 2957; 3685; 5360
HaeIII	GG!CC	31	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1354; 1432; 1648; 1696; 2648; 2790; 3445; 3451; 3460; 3503; 3590; 3764; 4155; 4182; 4691; 4748; 4781; 5126; 5560; 5578; 5589
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	3	1579; 2335; 3878
HaeIV	!NNNNNNNNNGAYNNNNNRTC	4	1545; 2301; 2323; 3844
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	3	1578; 2334; 3877
HaeIV	!NNNNNNNGAYNNNNNRTC	4	1547; 2303; 2325; 3846
HapII	C!CGG	25	601; 1184; 1316; 1661; 1701; 1719; 1953; 2205; 2324; 2900; 3587; 3664; 3686; 3714; 3845; 3935; 4002; 4183; 4458; 4466; 4558; 5032; 5222; 5248; 5395
HgaI	GACGCNNNNN!	5	526; 1468; 1617; 4392; 4471
HgaI	!NNNNNNNNNGCGTC	5	1176; 1461; 3015; 4910; 5488
HhaI	GCG!C	23	597; 1502; 1724; 2948; 2956; 2982; 3004; 3013; 3026; 3057; 3676; 3684; 3748; 3785; 4051; 4311; 4487; 4573; 4976; 5085; 5259; 5359; 5426
HinI	GR!CGYC	10	122; 175; 258; 444; 1187; 1460; 1609; 3682; 4384; 4463
HinIII	CATG!	31	304; 364; 615; 642; 648; 660; 738; 804; 884; 1095; 1359; 1407; 1437; 1653; 1797; 1978; 2085; 2196; 3112; 3252; 3324; 3415; 3556; 3901; 4087; 4118; 4144; 4500; 4884; 5604; 5655
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	5	1578; 1794; 2192; 2334; 3877
Hin4I	!NNNNNNNGABNNNNNRTC	6	1361; 1546; 2302; 2324; 3845; 3875
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	5	1393; 1578; 2334; 3877; 3907
Hin4I	!NNNNNNNGAYNNNNNVTC	6	1546; 1762; 2160; 2302; 2324; 3845
Hin6I	G!CGC	23	595; 1500; 1722; 2946; 2954; 2980; 3002; 3011; 3024; 3055; 3674; 3682; 3746; 3783; 4049; 4309; 4485; 4571; 4974; 5083; 5257; 5357; 5424
HinPII	G!CGC	23	595; 1500; 1722; 2946; 2954; 2980; 3002; 3011; 3024; 3055; 3674; 3682; 3746; 3783; 4049; 4309; 4485; 4571; 4974; 5083; 5257; 5357; 5424
HincII	GTY!RAC	1	2445
HindII	GTY!RAC	1	2445
HindIII	A!AGCTT	1	1337
HinfI	G!ANTC	17	410; 740; 890; 1217; 1319; 1394; 2222; 2725; 2747; 3157; 4167; 4301; 4353; 4411; 4448; 5230; 5626
HpaI	GTT!AAC	1	2445
HpaII	C!CGG	25	601; 1184; 1316; 1661; 1701; 1719; 1953; 2205; 2324; 2900; 3587; 3664; 3686; 3714; 3845; 3935; 4002; 4183; 4458; 4466; 4558; 5032; 5222; 5248; 5395
HphI	GGTGANNNNNNNN!	8	376; 627; 996; 1602; 1938; 2269; 4753; 4869
HphI	!NNNNNNNTCACC	4	885; 1957; 2799; 3860
Hpy8I	GTN!NAC	13	201; 539; 577; 672; 692; 987; 1191; 1200; 2445; 2729; 2746; 2801; 5288
Hpy99I	CGWCG!	8	1249; 3772; 3800; 4094; 4109; 4386; 4771; 5504
Hpy166II	GTN!NAC	13	201; 539; 577; 672; 692; 987; 1191; 1200; 2445; 2729; 2746; 2801; 5288
Hpy188I	TCN!GA	18	585; 699; 979; 1324; 1566; 1782; 2034; 2164; 2856; 3465; 3649; 3993; 4346; 4447; 4926; 5060; 5413; 5491
Hpy188III	TC!NNGA	31	972; 1176; 1316; 1328; 1391; 1512; 1852; 1866; 2177; 2217; 2267; 2330; 3109; 3161; 3474; 3527; 3700; 4016; 4025; 4108; 4164; 4208; 4298; 4331; 4400; 4881; 4955; 5038; 5136; 5234; 5368
HpyAV	CCTTCNNNNNN!	6	780; 828; 873; 4327; 4434; 5113

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HpyAV	!NNNNNGAAGG	15	700; 1072; 1422; 1637; 1647; 1834; 2001; 2124; 2915; 3810; 4539; 4555; 4738; 5055; 5365
HpyCH4III	ACN!GT	17	76; 198; 269; 543; 581; 669; 1377; 1617; 1941; 2773; 4062; 4178; 4286; 4609; 5100; 5570; 5641
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 968; 1244; 1628; 2742; 2754; 2797; 2907; 3798; 3985; 4766; 4899
HpyCH4V	TG!CA	25	642; 692; 1014; 1130; 1280; 1632; 1974; 2081; 2098; 2431; 2458; 2526; 3243; 3252; 3315; 3324; 3439; 3515; 3574; 3733; 3908; 3922; 4992; 5288; 5655
HpyF3I	C!TNAG	12	869; 1166; 1321; 1423; 1570; 1709; 3162; 3464; 4345; 4794; 4917; 5326
HpyF10VI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 648; 1079; 1093; 1535; 1617; 1638; 2065; 2104; 2909; 2939; 2966; 3008; 3249; 3321; 3372; 3451; 3673; 3757; 3780; 3919; 4042; 4125; 4392; 4579; 4783; 4982; 5554
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 1187; 1460; 1609; 3682; 4384; 4463
Hsp92II	CATG!	31	304; 364; 615; 642; 648; 660; 738; 804; 884; 1095; 1359; 1407; 1437; 1653; 1797; 1978; 2085; 2196; 3112; 3252; 3324; 3415; 3556; 3901; 4087; 4118; 4144; 4500; 4884; 5604; 5655
HspAI	G!CGC	23	595; 1500; 1722; 2946; 2954; 2980; 3002; 3011; 3024; 3055; 3674; 3682; 3746; 3783; 4049; 4309; 4485; 4571; 4974; 5083; 5257; 5357; 5424
KasI	G!GCGCC	1	3681
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1315
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	2339
KspAI	GTT!AAC	1	2445
Kzo9I	!GATC	27	585; 974; 1124; 1150; 1324; 1508; 1688; 1715; 2317; 2326; 2339; 3519; 3523; 3542; 3853; 3931; 4012; 4021; 4099; 4475; 4491; 4850; 4862; 4940; 4948; 4959; 5034
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	4026; 4236
LpnI	RGCI!GCY	6	596; 1501; 2947; 2955; 3683; 5358
LpnPI	CCDGNNNNNNNNN!	74	102; 295; 614; 742; 799; 847; 881; 943; 958; 1019; 1066; 1087; 1111; 1135; 1197; 1284; 1329; 1429; 1510; 1570; 1674; 1705; 1721; 1753; 1813; 1894; 1966; 1981; 2218; 2337; 2419; 2724; 2913; 3136; 3174; 3190; 3230; 3285; 3302; 3402; 3487; 3600; 3677; 3699; 3722; 3858; 3872; 3891; 3948; 4015; 4065; 4081; 4138; 4196; 4405; 4471; 4495; 4571; 4660; 4763; 4796; 5027; 5045; 5191; 5211; 5235; 5261; 5310; 5408; 5453; 5483; 5562; 5587; 5624
LpnPI	!NNNNNNNNNNNNNCHGG	71	75; 268; 552; 586; 772; 820; 916; 1017; 1060; 1169; 1195; 1282; 1301; 1376; 1489; 1524; 1573; 1646; 1678; 1704; 1795; 1837; 1858; 1883; 1938; 2027; 2050; 2190; 2252; 2309; 2765; 2885; 2942; 3005; 3203; 3215; 3275; 3287; 3519; 3564; 3607; 3649; 3671; 3699; 3746; 3808; 3830; 3920; 3987; 4010; 4054; 4149; 4168; 4193; 4342; 4443; 4486; 4543; 4633; 4736; 4763; 4781; 5017; 5054; 5207; 5233; 5373; 5391; 5426; 5507; 5560
Lsp1109I	GCAGCNNNNNNNN!	9	821; 1263; 1755; 2470; 3755; 3797; 4318; 4771; 5271
Lsp1109I	!NNNNNNNNNNNGCTGC	10	940; 1371; 1625; 1663; 2964; 3629; 3813; 3906; 4972; 5178
LweI	GCATCNNNNN!	7	848; 2498; 3261; 3333; 3981; 4045; 4320
LweI	!NNNNNNNNNNGATGC	11	357; 1001; 1169; 1401; 1848; 1866; 2046; 3640; 3895; 4111; 5503
MabI	A!CCWGGT	1	3271
MaeI	C!TAG	9	592; 1289; 2330; 2531; 2949; 3505; 4520; 4854; 5107
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 968; 1244; 1628; 2742; 2754; 2797; 2907; 3798; 3985; 4766; 4899
MaeIII	!GTNAC	14	61; 148; 497; 891; 2257; 2470; 2971; 2983; 3802; 4108; 4798; 5064; 5180; 5243
MalI	GA!TC	27	587; 976; 1126; 1152; 1326; 1510; 1690; 1717; 2319; 2328; 2341; 3521; 3525; 3544; 3855; 3933; 4014; 4023; 4101; 4477; 4493; 4852; 4864; 4942; 4950; 4961; 5036
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3106; 4295
MbiI	GAG!CGG	2	2942; 4349

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MboI	!GATC	27	585; 974; 1124; 1150; 1324; 1508; 1688; 1715; 2317; 2326; 2339; 3519; 3523; 3542; 3853; 3931; 4012; 4021; 4099; 4475; 4491; 4850; 4862; 4940; 4948; 4959; 5034
MboII	GAAGANNNNNNN!	14	916; 1029; 1149; 1217; 1420; 1468; 1777; 1917; 2065; 2938; 3166; 4043; 4253; 4872
MboII	!NNNNNNNTCTTC	4	4333; 4500; 4700; 4943
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2432
MfII	R!GATCY	14	585; 1150; 1324; 1688; 1715; 2317; 2326; 3853; 4099; 4491; 4850; 4862; 4948; 4959
MhII	GDGCH!C	17	667; 694; 727; 1304; 1335; 1445; 1531; 2143; 2211; 2873; 3628; 3721; 3795; 3985; 4047; 4757; 5290
MIsI	TGG!CCA	3	1270; 1354; 3764
MluI	A!CGCGT	1	2568
MluNI	TGG!CCA	3	1270; 1354; 3764
MlyI	GAGTCNNNNN!	3	899; 2734; 3166
MlyI	!NNNNNGACTC	6	404; 1313; 2216; 2741; 4347; 5224
MlyI13I	GG!CGCC	1	3682
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1022; 2775
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	3	2177; 5207; 5391
MnII	CCTCNNNNNNN!	15	773; 952; 967; 1050; 1183; 1294; 1707; 2167; 2401; 3465; 4283; 4489; 4803; 5173; 5497
MnII	!NNNNNNGAGG	31	541; 654; 693; 714; 747; 864; 973; 1029; 1218; 1251; 1363; 1418; 1665; 1704; 1826; 1887; 1917; 2078; 2296; 2361; 2826; 3157; 3435; 3478; 3493; 3533; 3597; 3733; 4090; 4520; 5423
Mph1103I	ATGCA!T	3	3254; 3326; 5657
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1315
MroNI	G!CCGGC	4	1660; 2899; 4182; 4465
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	3	1270; 1354; 3764
MseI	T!TAA	20	7; 629; 854; 1310; 2027; 2313; 2383; 2444; 2565; 2586; 2597; 2609; 2620; 2637; 2735; 3006; 4825; 4839; 4844; 4896
MslI	CAYNN!NNRTG	5	365; 613; 643; 2164; 4119
MspI	C!CGG	25	601; 1184; 1316; 1661; 1701; 1719; 1953; 2205; 2324; 2900; 3587; 3664; 3686; 3714; 3845; 3935; 4002; 4183; 4458; 4466; 4558; 5032; 5222; 5248; 5395
Msp20I	TGG!CCA	3	1270; 1354; 3764
MspA1I	CMG!CKG	6	1063; 1825; 3180; 3788; 5017; 5262
MspCI	C!TTAAG	0	
MspJI	CNNRRNNNNNNNN!	290	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 633; 651; 669; 699; 717; 732; 747; 765; 798; 813; 841; 856; 880; 893; 909; 927; 941; 957; 970; 984; 1005; 1018; 1039; 1058; 1072; 1086; 1100; 1117; 1134; 1155; 1174; 1188; 1215; 1233; 1253; 1267; 1283; 1300; 1315; 1328; 1342; 1355; 1368; 1392; 1416; 1429; 1446; 1463; 1489; 1508; 1524; 1551; 1569; 1582; 1596; 1624; 1641; 1654; 1673; 1692; 1705; 1720; 1735; 1748; 1768; 1793; 1806; 1822; 1838; 1864; 1878; 1892; 1910; 1931; 1948; 1964; 1980; 2004; 2017; 2032; 2045; 2077; 2094; 2111; 2148; 2170; 2189; 2205; 2218; 2256; 2274; 2289; 2302; 2336; 2350; 2365; 2389; 2406; 2419; 2460; 2474; 2487; 2505; 2543; 2558; 2576; 2617; 2641; 2661; 2679; 2700; 2723; 2755; 2770; 2792; 2810; 2823; 2844; 2861; 2874; 2887; 2903; 2916; 2946; 2961; 2986; 3004; 3017; 3032; 3056; 3070; 3094; 3119; 3135; 3173; 3189; 3228; 3242; 3256; 3284; 3300; 3314; 3328; 3357; 3370; 3391; 3400; 3422; 3452; 3468; 3486; 3516; 3539; 3563; 3587; 3606; 3634; 3660; 3676; 3689; 3712; 3726; 3746; 3759; 3773; 3792; 3806; 3819; 3835; 3850; 3863; 3879; 3894; 3910; 3935; 3954; 3970; 3983; 3996; 4014; 4028; 4042; 4058; 4080; 4096; 4115; 4137; 4153; 4176; 4195; 4209; 4225; 4239; 4259; 4275; 4288; 4310; 4343; 4357; 4377; 4390; 4404; 4458; 4471; 4494; 4507; 4526; 4543; 4570; 4606; 4639; 4658; 4683; 4704; 4731; 4744; 4761; 4775; 4790; 4806; 4866; 4891; 4907; 4929; 4942; 4956; 4987; 5001; 5026; 5044; 5059; 5072; 5091; 5104; 5119; 5148; 5167; 5185; 5210; 5225; 5244; 5260; 5279; 5297; 5313; 5327; 5346; 5373; 5396; 5418; 5437; 5452; 5465; 5482; 5502; 5529; 5542; 5561; 5586; 5609; 5623; 5636; 5653

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	235	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 598; 616; 643; 673; 697; 715; 739; 758; 780; 820; 841; 867; 887; 916; 958; 992; 1013; 1033; 1060; 1078; 1095; 1113; 1141; 1162; 1181; 1207; 1229; 1252; 1275; 1301; 1322; 1342; 1376; 1402; 1420; 1455; 1483; 1510; 1531; 1550; 1568; 1600; 1619; 1636; 1657; 1678; 1696; 1713; 1736; 1761; 1780; 1804; 1837; 1854; 1873; 1898; 1932; 1954; 2018; 2036; 2068; 2090; 2122; 2148; 2165; 2183; 2203; 2224; 2252; 2276; 2300; 2334; 2363; 2392; 2434; 2517; 2555; 2579; 2602; 2631; 2675; 2697; 2729; 2765; 2782; 2803; 2840; 2860; 2877; 2894; 2929; 2947; 2965; 2982; 3006; 3028; 3055; 3083; 3109; 3147; 3168; 3185; 3203; 3226; 3247; 3275; 3298; 3319; 3337; 3358; 3375; 3398; 3422; 3442; 3460; 3482; 3513; 3535; 3561; 3580; 3597; 3625; 3644; 3663; 3681; 3699; 3720; 3742; 3766; 3799; 3819; 3837; 3858; 3884; 3911; 3928; 3945; 3962; 3988; 4010; 4032; 4050; 4070; 4089; 4111; 4149; 4169; 4193; 4213; 4233; 4260; 4284; 4317; 4336; 4364; 4386; 4415; 4443; 4468; 4487; 4506; 4527; 4544; 4561; 4592; 4619; 4639; 4662; 4682; 4719; 4736; 4755; 4781; 4801; 4840; 4867; 4886; 4904; 4941; 4959; 5000; 5018; 5044; 5061; 5093; 5122; 5150; 5171; 5194; 5213; 5234; 5252; 5269; 5287; 5313; 5334; 5354; 5374; 5392; 5413; 5439; 5456; 5475; 5494; 5523; 5542; 5560; 5579; 5597; 5615; 5638
MspR9I	CC!NGG	27	90; 283; 787; 835; 931; 946; 1075; 1184; 1504; 1693; 1701; 1882; 1953; 2206; 3218; 3273; 3290; 3686; 3846; 4069; 4459; 4648; 4751; 5223; 5441; 5454; 5575
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2432
MvaI	CC!WGG	19	90; 283; 787; 835; 931; 946; 1075; 1504; 1693; 1882; 3218; 3273; 3290; 4069; 4648; 4751; 5441; 5454; 5575
Mva1269I	GAATGCN!	1	2433
Mva1269I	G!CATTC	1	2526
MvnI	CG!CG	15	60; 2570; 2606; 2982; 3002; 3026; 3057; 3748; 4049; 4487; 4571; 4634; 4703; 4976; 5557
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 648; 1079; 1093; 1535; 1617; 1638; 2065; 2104; 2909; 2939; 2966; 3008; 3249; 3321; 3372; 3451; 3673; 3757; 3780; 3919; 4042; 4125; 4392; 4579; 4783; 4982; 5554
NaeI	GCC!GGC	4	1662; 2901; 4184; 4467
NarI	GG!CGCC	1	3682
NciI	CC!SGG	8	1184; 1701; 1953; 2206; 3686; 3846; 4459; 5223
NcoI	C!CATGG	6	360; 611; 1355; 1403; 3411; 4114
NdeI	CA!TATG	1	234
NdeII	!GATC	27	585; 974; 1124; 1150; 1324; 1508; 1688; 1715; 2317; 2326; 2339; 3519; 3523; 3542; 3853; 3931; 4012; 4021; 4099; 4475; 4491; 4850; 4862; 4940; 4948; 4959; 5034
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	2	280; 1908
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	731
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	767
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	2	244; 1872
NgoMIV	G!CCGGC	4	1660; 2899; 4182; 4465
NheI	G!CTAGC	1	591
NlaIII	CATG!	31	304; 364; 615; 642; 648; 660; 738; 804; 884; 1095; 1359; 1407; 1437; 1653; 1797; 1978; 2085; 2196; 3112; 3252; 3324; 3415; 3556; 3901; 4087; 4118; 4144; 4500; 4884; 5604; 5655
NlaIV	GGN!NCC	24	467; 666; 726; 1117; 1449; 1659; 1705; 1759; 1957; 2142; 2319; 2837; 2858; 2870; 3061; 3222; 3294; 3683; 3718; 4566; 4645; 4690; 5533; 5572
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2514; 2829; 4421
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 991; 2149; 5493
Nli3877I	CYCGR!G	2	1332; 2181
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3471; 3907
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	3	1007; 1424; 3436
NmeDI	RCCGGYNNNNNNN!	6	612; 1672; 2911; 4013; 4194; 4477
NmeDI	!NNNNNNNNNNNNRCCGGY	6	587; 1647; 2886; 3988; 4169; 4452
NmuCI	!GTSAC	5	891; 2257; 2971; 3802; 4108
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NsbI	TGC!GCA	1	3784
NsiI	ATGCA!T	3	3254; 3326; 5657
NspI	RCATG!Y	7	642; 1978; 2196; 3252; 3324; 4087; 5604
NspV	TT!CGAA	2	1342; 4364
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	13	220; 245; 300; 333; 384; 541; 656; 806; 1058; 1375; 2243; 2286; 3989
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3252; 3324; 4087
PaeR7I	C!TCGAG	2	1328; 2177
PagI	T!CATGA	2	3108; 4880
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	834; 4647; 4750
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	1039; 3503
PciI	A!CATGT	2	2192; 5600
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	4026; 4236
PcsI	WCGNNNN!NNNCGW	8	1253; 1862; 3976; 4053; 4296; 4370; 4763; 5281
PctI	GAATGCN!	1	2433
PctI	G!CATTC	1	2526
PdiI	GCC!GGC	4	1662; 2901; 4184; 4467
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	8	740; 1217; 1394; 4167; 4301; 4411; 4448; 5626
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3800
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	4	944; 1699; 1951; 4457
PhoI	GG!CC	31	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1354; 1432; 1648; 1696; 2648; 2790; 3445; 3451; 3460; 3503; 3590; 3764; 4155; 4182; 4691; 4748; 4781; 5126; 5560; 5578; 5589
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	2	2186; 4063
PlaDI	!NNNNNNNNNNNNNNNNNNNNNCTGATG	3	1647; 3628; 3883
PleI	GAGTCNNNN!	3	898; 2733; 3165
PleI	!NNNNNGACTC	6	404; 1313; 2216; 2741; 4347; 5224
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2764
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4894
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4926
PpiI	!NNNNNNNGAACNNNNNCTC	1	2732
PpsI	GAGTCNNNN!	3	898; 2733; 3165
PpsI	!NNNNNGACTC	6	404; 1313; 2216; 2741; 4347; 5224
Ppu10I	A!TGCAT	3	3250; 3322; 5653
Ppu21I	YAC!GTR	3	340; 2798; 3986
PpuMI	RG!GWCCY	1	1884
PscI	A!CATGT	2	2192; 5600
PshAI	GACNN!NNGTC	1	1243
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2465; 2670
Psp03I	GGWC!C	4	1706; 1887; 4201; 4646
Psp5II	RG!GWCCY	1	1884
Psp6I	!CCWGG	19	88; 281; 785; 833; 929; 944; 1073; 1502; 1691; 1880; 3216; 3271; 3288; 4067; 4646; 4749; 5439; 5452; 5573
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1335
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	19	88; 281; 785; 833; 929; 944; 1073; 1502; 1691; 1880; 3216; 3271; 3288; 4067; 4646; 4749; 5439; 5452; 5573
PspLI	C!GTACG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspN4I	GGN!NCC	24	467; 666; 726; 1117; 1449; 1659; 1705; 1759; 1957; 2142; 2319; 2837; 2858; 2870; 3061; 3222; 3294; 3683; 3718; 4566; 4645; 4690; 5533; 5572
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	4	125; 1520; 3412; 4411
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	3814
PspPI	G!GNCC	15	83; 276; 760; 1003; 1095; 1116; 1646; 1703; 1884; 2789; 4198; 4643; 4689; 4747; 4780
PspPPI	RG!GWCCY	1	1884
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	3235; 3307; 4813
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	6	855; 1283; 1409; 1695; 3148; 4343
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	1	2276
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	1	2308
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	1887; 4783
PstI	CTGCA!G	0	
PstNI	CAGNN!CTG	5	1277; 1422; 1887; 4783; 5191
PsuI	R!GATCY	14	585; 1150; 1324; 1688; 1715; 2317; 2326; 3853; 4099; 4491; 4850; 4862; 4948; 4959
PsyI	GACN!NNGTC	1	3800
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1825; 3180; 3788
RcaI	T!CATGA	2	3108; 4880
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4197
RceI	!NNNNNNNNNNNNNNNNNGTTCGATG	0	
RgaI	GCGAT!CGC	0	
RglI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNNNN!	1	2411
RleAI	!NNNNNNNNNTGTGGG	1	1586
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	13	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1374; 2242; 2285; 3988
RsaNI	G!TAC	13	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1373; 2241; 2284; 3987
RseI	CAYNN!NNRTG	5	365; 613; 643; 2164; 4119
RsrII	CG!GWCCG	1	4198
Rsr2I	CG!GWCCG	1	4198
SacI	GAGCT!C	1	1335
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	4026; 4236
SaqAI	T!TAA	20	7; 629; 854; 1310; 2027; 2313; 2383; 2444; 2565; 2586; 2597; 2609; 2620; 2637; 2735; 3006; 4825; 4839; 4844; 4896
SatI	GC!NGC	37	759; 810; 954; 1071; 1252; 1385; 1639; 1677; 1744; 2459; 2978; 3000; 3014; 3452; 3591; 3643; 3654; 3744; 3749; 3786; 3827; 3914; 3917; 3920; 4156; 4252; 4293; 4307; 4421; 4760; 4775; 4986; 5192; 5195; 5260; 5403; 5558
Sau96I	G!GNCC	15	83; 276; 760; 1003; 1095; 1116; 1646; 1703; 1884; 2789; 4198; 4643; 4689; 4747; 4780
Sau3AI	!GATC	27	585; 974; 1124; 1150; 1324; 1508; 1688; 1715; 2317; 2326; 2339; 3519; 3523; 3542; 3853; 3931; 4012; 4021; 4099; 4475; 4491; 4850; 4862; 4940; 4948; 4959; 5034
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	1	2285
SchI	GAGTCNNNNN!	3	899; 2734; 3166
SchI	!NNNNNGACTC	6	404; 1313; 2216; 2741; 4347; 5224
SciI	CTC!GAG	2	1330; 2179

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ScrFI	CC!NGG	27	90; 283; 787; 835; 931; 946; 1075; 1184; 1504; 1693; 1701; 1882; 1953; 2206; 3218; 3273; 3290; 3686; 3846; 4069; 4459; 4648; 4751; 5223; 5441; 5454; 5575
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	8	1041; 1229; 1530; 2031; 3260; 3332; 3501; 5443
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	3837; 4322
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	2	279; 1907
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	2	245; 1873
SduI	GDGCH!C	17	667; 694; 727; 1304; 1335; 1445; 1531; 2143; 2211; 2873; 3628; 3721; 3795; 3985; 4047; 4757; 5290
SelI	!CGCG	15	58; 2568; 2604; 2980; 3000; 3024; 3055; 3746; 4047; 4485; 4569; 4632; 4701; 4974; 5555
SetI	ASST!	76	125; 137; 178; 261; 308; 342; 447; 552; 568; 626; 653; 799; 820; 971; 1106; 1124; 1175; 1243; 1247; 1262; 1286; 1335; 1341; 1374; 1386; 1559; 1592; 1631; 1640; 1738; 1827; 1889; 1928; 1970; 2050; 2117; 2372; 2393; 2402; 2414; 2463; 2630; 2745; 2757; 2800; 2837; 2887; 2910; 3034; 3182; 3277; 3470; 3583; 3711; 3790; 3801; 3873; 3944; 3988; 4248; 4394; 4438; 4769; 4800; 4859; 4902; 5045; 5066; 5165; 5302; 5317; 5336; 5348; 5392; 5438; 5489
SexAI	A!CCWGGT	1	3271
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	848; 2498; 3261; 3333; 3981; 4045; 4320
SfaNI	!NNNNNNNNNGATGC	11	357; 1001; 1169; 1401; 1848; 1866; 2046; 3640; 3895; 4111; 5503
Sfcl	C!TRYAG	5	2069; 2274; 3017; 5144; 5335
SfiI	GGCCNNNN!NGGCC	1	3457
SfoI	GGC!GCC	1	3683
Sfr274I	C!TCGAG	2	1328; 2177
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	2	1342; 4364
SgeI	CNNGNNNNNNNN!	222	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 651; 669; 699; 723; 741; 756; 798; 813; 846; 880; 893; 921; 942; 957; 984; 1018; 1039; 1059; 1072; 1086; 1104; 1117; 1134; 1167; 1188; 1222; 1260; 1283; 1301; 1328; 1342; 1368; 1403; 1416; 1434; 1456; 1489; 1509; 1524; 1551; 1569; 1596; 1626; 1641; 1662; 1704; 1720; 1752; 1774; 1806; 1822; 1838; 1864; 1878; 1893; 1910; 1964; 1980; 2054; 2077; 2094; 2148; 2189; 2205; 2218; 2256; 2279; 2302; 2336; 2389; 2418; 2460; 2543; 2581; 2617; 2701; 2723; 2755; 2792; 2810; 2829; 2844; 2886; 2903; 2920; 2955; 2969; 2986; 3008; 3032; 3056; 3121; 3135; 3173; 3189; 3229; 3242; 3261; 3284; 3301; 3314; 3333; 3363; 3384; 3401; 3424; 3459; 3486; 3517; 3539; 3565; 3587; 3606; 3634; 3670; 3689; 3712; 3726; 3746; 3759; 3773; 3792; 3806; 3825; 3857; 3871; 3884; 3910; 3941; 3954; 3971; 3988; 4002; 4019; 4037; 4052; 4080; 4096; 4115; 4137; 4153; 4176; 4195; 4220; 4239; 4259; 4286; 4310; 4343; 4362; 4390; 4404; 4470; 4494; 4509; 4532; 4553; 4570; 4618; 4645; 4659; 4688; 4712; 4745; 4762; 4782; 4795; 4808; 4866; 4893; 4912; 4942; 4967; 4987; 5001; 5026; 5044; 5081; 5119; 5148; 5176; 5190; 5210; 5225; 5246; 5260; 5279; 5297; 5313; 5353; 5373; 5400; 5418; 5439; 5452; 5465; 5482; 5506; 5529; 5561; 5586; 5613; 5635

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	195	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 625; 643; 673; 697; 715; 739; 772; 820; 854; 895; 916; 958; 992; 1013; 1033; 1060; 1078; 1099; 1120; 1141; 1162; 1196; 1234; 1257; 1275; 1302; 1322; 1342; 1377; 1402; 1420; 1463; 1483; 1510; 1531; 1570; 1600; 1619; 1636; 1678; 1705; 1726; 1748; 1780; 1812; 1838; 1859; 1884; 1938; 1961; 2028; 2051; 2068; 2122; 2163; 2191; 2230; 2253; 2276; 2310; 2363; 2392; 2434; 2517; 2555; 2591; 2675; 2697; 2729; 2766; 2784; 2803; 2860; 2877; 2894; 2929; 2947; 2967; 2987; 3006; 3030; 3095; 3147; 3203; 3235; 3258; 3275; 3307; 3337; 3358; 3375; 3398; 3433; 3460; 3491; 3513; 3539; 3561; 3580; 3608; 3644; 3663; 3686; 3707; 3725; 3742; 3766; 3799; 3831; 3858; 3884; 3915; 3945; 3962; 3988; 4011; 4032; 4054; 4074; 4094; 4111; 4150; 4169; 4194; 4213; 4233; 4260; 4284; 4317; 4336; 4364; 4386; 4444; 4468; 4487; 4506; 4527; 4544; 4592; 4619; 4639; 4662; 4686; 4719; 4736; 4756; 4782; 4840; 4867; 4886; 4916; 4941; 4961; 5000; 5018; 5055; 5093; 5122; 5150; 5171; 5199; 5220; 5253; 5271; 5327; 5347; 5374; 5392; 5413; 5439; 5456; 5480; 5503; 5535; 5560; 5587; 5609; 5638
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2829; 4616; 5409
SimI	!GACCC	7	106; 1049; 1418; 1703; 4110; 4678; 4926
SinI	G!GWCC	4	1703; 1884; 4198; 4643
SlaI	C!TCGAG	2	1328; 2177
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 613; 643; 2164; 4119
SmlI	C!TYRAG	8	1174; 1328; 1334; 2177; 4073; 4955; 5232; 5494
SmoI	C!TYRAG	8	1174; 1328; 1334; 2177; 4073; 4955; 5232; 5494
SmuI	CCCGCNNNN!	10	93; 119; 286; 1068; 1170; 3004; 3359; 3380; 4576; 4708
SmuI	!NNNNNNGCGGG	6	1105; 2935; 3805; 4342; 4480; 4627
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3252; 3324; 4087
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	16	18; 1311; 1344; 1682; 1845; 1930; 2186; 2432; 2496; 2574; 2600; 2611; 3258; 3330; 3422; 4840
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	1	1884
SseBI	AGG!CCT	2	1039; 3503
SsiI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1485; 1493; 2997; 3000; 3014; 3104; 3352; 3364; 3373; 3385; 3395; 3406; 3452; 3591; 3654; 4156; 4201; 4267; 4293; 4418; 4421; 4569; 4701; 5008; 5152; 5648
SsiI	G!CGG	27	370; 403; 528; 748; 758; 1070; 1112; 2942; 2969; 3057; 3167; 3748; 3812; 3913; 3916; 4196; 4251; 4349; 4487; 4634; 4774; 5017; 5262; 5383; 5402; 5529; 5557
SspI	AAT!ATT	2	2590; 3143
SspDI	G!GCGCC	1	3681
SspD5I	GGTGANNNNNNNN!	8	376; 627; 996; 1602; 1938; 2269; 4753; 4869
SspD5I	!NNNNNNNNNTCACC	4	884; 1956; 2798; 3859
SstI	GAGCT!C	1	1335
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNNNN!	1	929
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	21	92; 118; 285; 851; 1067; 1169; 1190; 1707; 1959; 2881; 3003; 3358; 3379; 3692; 4095; 4234; 4305; 4575; 4707; 4937; 5375
Sth132I	!NNNNNNNNNCGGG	21	15; 407; 470; 900; 1104; 2197; 2882; 2934; 3035; 3762; 3804; 3837; 4341; 4450; 4479; 4626; 4730; 4761; 5214; 5258; 5466
Sth302II	CC!GG	25	602; 1185; 1317; 1662; 1702; 1720; 1954; 2206; 2325; 2901; 3588; 3665; 3687; 3715; 3846; 3936; 4003; 4184; 4459; 4467; 4559; 5033; 5223; 5249; 5396
StrI	C!TCGAG	2	1328; 2177
StsI	GGATGNNNNNNNNNN!	7	1615; 1850; 1889; 3550; 4007; 4032; 4486

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StsI	!NNNNNNNNNNNNNNNNCATCC	5	680; 768; 825; 980; 3354
StuI	AGG!CCT	2	1039; 3503
StyI	C!CWGGG	8	360; 611; 1355; 1403; 3411; 3504; 4114; 4519
StyD4I	!CCNGG	27	88; 281; 785; 833; 929; 944; 1073; 1182; 1502; 1691; 1699; 1880; 1951; 2204; 3216; 3271; 3288; 3684; 3844; 4067; 4457; 4646; 4749; 5221; 5439; 5452; 5573
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	17	76; 198; 269; 543; 581; 669; 1377; 1617; 1941; 2773; 4062; 4178; 4286; 4609; 5100; 5570; 5641
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 971; 1247; 1631; 2745; 2757; 2800; 2910; 3801; 3988; 4769; 4902
TaqI	T!CGA	19	752; 779; 1247; 1329; 1342; 1583; 2125; 2178; 2831; 3522; 3795; 3951; 3975; 4011; 4173; 4364; 4409; 4664; 5502
TaqII	GACCGANNNNNNNNNN!	3	2702; 3719; 4387
TaqII	!NNNNNNNNNTCGGTC	1	4631
TaqII	CACCCANNNNNNNNNN!	2	742; 847
TaqII	!NNNNNNNNNTGGGTG	3	172; 3586; 4178
TasI	!AATT	16	18; 1311; 1344; 1682; 1845; 1930; 2186; 2432; 2496; 2574; 2600; 2611; 3258; 3330; 3422; 4840
TatI	W!GTACW	7	217; 297; 330; 381; 653; 2240; 2283
TauI	GCSG!C	17	761; 1073; 3002; 3016; 3454; 3593; 3656; 3751; 3916; 3919; 4158; 4254; 4295; 4423; 4777; 5405; 5560
TfiI	G!AWTC	8	740; 1217; 1394; 4167; 4301; 4411; 4448; 5626
TliI	C!TCGAG	2	1328; 2177
TruII	T!TAA	20	7; 629; 854; 1310; 2027; 2313; 2383; 2444; 2565; 2586; 2597; 2609; 2620; 2637; 2735; 3006; 4825; 4839; 4844; 4896
Tru9I	T!TAA	20	7; 629; 854; 1310; 2027; 2313; 2383; 2444; 2565; 2586; 2597; 2609; 2620; 2637; 2735; 3006; 4825; 4839; 4844; 4896
TscAI	CASTGNN!	6	1671; 2528; 3811; 4921; 5192; 5205
TseI	G!CWGC	20	809; 953; 1251; 1384; 1638; 1676; 1743; 2458; 2977; 3642; 3743; 3785; 3826; 3919; 4306; 4759; 4985; 5191; 5194; 5259
TsoI	TARCCANNNNNNNNNN!	2	2654; 3001
TsoI	!NNNNNNNNNTGGYTA	4	778; 2056; 2459; 4211
Tsp45I	!GTSAC	5	891; 2257; 2971; 3802; 4108
Tsp509I	!AATT	16	18; 1311; 1344; 1682; 1845; 1930; 2186; 2432; 2496; 2574; 2600; 2611; 3258; 3330; 3422; 4840
TspDTI	ATGAANNNNNNNNNN!	10	661; 1450; 1469; 1666; 1853; 2000; 2143; 2440; 3741; 4445
TspDTI	!NNNNNNNNNTTCAT	8	26; 789; 810; 1782; 2238; 4159; 4615; 4822
TspEI	!AATT	16	18; 1311; 1344; 1682; 1845; 1930; 2186; 2432; 2496; 2574; 2600; 2611; 3258; 3330; 3422; 4840
TspGWI	ACGGANNNNNNNNNN!	2	1770; 4557
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	6	1671; 2528; 3811; 4921; 5192; 5205
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3800
Tth111II	CAARCANNNNNNNNNN!	1	5009
Tth111III	!NNNNNNNNNTGYTTG	5	1969; 2278; 4117; 4977; 5016
UnbI	!GGNCC	15	82; 275; 759; 1002; 1094; 1115; 1645; 1702; 1883; 2788; 4197; 4642; 4688; 4746; 4779
Van9II	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	690; 5286
VpaK11AI	!GGWCC	4	1702; 1883; 4197; 4642
VpaK11BI	G!GWCC	4	1703; 1884; 4198; 4643
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	1426; 1891
XapI	R!AATTY	5	1344; 1930; 2496; 2600; 2611
XbaI	T!CTAGA	1	2329
XceI	RCATG!Y	7	642; 1978; 2196; 3252; 3324; 4087; 5604
XcmI	CCANNNN!NNNTGG	1	1747
XhoI	C!TCGAG	2	1328; 2177

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XhoII	R!GATCY	14	585; 1150; 1324; 1688; 1715; 2317; 2326; 3853; 4099; 4491; 4850; 4862; 4948; 4959
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3504; 4519
XmiI	GT!MKAC	1	1190
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	592; 1289; 2330; 2531; 2949; 3505; 4520; 4854; 5107
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	1	2285
Zsp2I	ATGCA!T	3	3254; 3326; 5657