

pmKate2-lyso vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2746; 2951
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	1088; 3034; 3990; 5779
AatI	AGG!CCT	4	675; 1139; 2333; 3784
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	1092; 2484
AccII	CG!CG	17	60; 1829; 1886; 2612; 2887; 3263; 3283; 3307; 3338; 4029; 4330; 4768; 4852; 4915; 4984; 5257; 5838
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	4065
Acc36I	ACCTGCNNNN!	4	1152; 1298; 4231; 4681
Acc36I	!NNNNNNNNGCAGGT	1	3850
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	8	465; 638; 1406; 1958; 2018; 3116; 3962; 3997
AccB7I	CCANNNN!NTGG	1	1208
AccBSI	CCG!CTC	2	3387; 4576
AccBSI	GAG!CGG	3	2606; 3223; 4630
AceIII	CAGCTCNNNNNNN!	3	853; 1015; 2919
AceIII	!NNNNNNNNNNGAGCTG	3	552; 1442; 1904
AciI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 650; 2217; 2355; 2457; 2610; 3278; 3281; 3295; 3385; 3633; 3645; 3654; 3666; 3676; 3687; 3733; 3872; 3935; 4437; 4482; 4548; 4574; 4699; 4702; 4850; 4982; 5289; 5433; 5929
AciI	G!CGG	33	370; 403; 528; 629; 1404; 1761; 1829; 1886; 2042; 2052; 2364; 2406; 2606; 3223; 3250; 3338; 3448; 4029; 4093; 4194; 4197; 4477; 4532; 4630; 4768; 4915; 5055; 5298; 5543; 5664; 5683; 5810; 5838
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	9	1197; 1896; 3831; 4142; 4388; 4780; 5139; 5237; 5323
AcIWI	!NNNNNGATCC	8	580; 1738; 1883; 2439; 4207; 4751; 5138; 5235
AcoI	Y!GGCCR	7	738; 2562; 2607; 3869; 4043; 4434; 4461
AcsI	R!AATY	4	1850; 2777; 2881; 2892
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	5	851; 1445; 2414; 4109; 4541
AcuI	!NNNNNNNNNNNNNNCTTCAG	4	1144; 1562; 1642; 5339
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	10	122; 175; 258; 444; 639; 646; 2481; 3963; 4665; 4744
AdeI	CACNNN!GTG	3	729; 2554; 3079
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 1265; 1722; 1949; 2099; 2351; 4269
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	23	49; 1208; 1429; 1773; 2015; 2128; 2294; 2360; 2975; 3301; 3693; 3944; 4488; 4769; 4801; 4933; 4968; 5018; 5050; 5403; 5682; 5848; 5866
AflIII	C!TTAAG	1	2845
AflIII	A!CRYGT	4	781; 935; 954; 5881
AgeI	A!CCGGT	1	1894
AgsI	TTS!AA	9	1369; 1513; 1981; 2431; 3374; 3418; 3428; 3841; 5417
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	20	88; 281; 1134; 1449; 1671; 1767; 2079; 2127; 2223; 2238; 2367; 3497; 3552; 3569; 4348; 4927; 5030; 5720; 5733; 5854
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNTTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	1352; 1907
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	3537; 3609
AlfI	!NNNNNNNNNGGCANNNNNNTGC	2	3503; 3575
AloI	GAACNNNNNTTCNNNNNNNNNNNN!	2	2305; 3045
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	2	2273; 3013
AluI	AG!CT	21	566; 744; 843; 1005; 1456; 1574; 1918; 1945; 2091; 2398; 2742; 2909; 3166; 3461; 3749; 4069; 4527; 5324; 5581; 5627; 5717
AluBI	AG!CT	21	566; 744; 843; 1005; 1456; 1574; 1918; 1945; 2091; 2398; 2742; 2909; 3166; 3461; 3749; 4069; 4527; 5324; 5581; 5627; 5717
AlwI	GGATCNNNN!	9	1197; 1896; 3831; 4142; 4388; 4780; 5139; 5237; 5323
AlwI	!NNNNNGATCC	8	580; 1738; 1883; 2439; 4207; 4751; 5138; 5235
Alw21I	GWGCW!C	6	1119; 1623; 1988; 4076; 4266; 5571
Alw26I	GTCTCN!	2	434; 799
Alw26I	!NNNNNGAGAC	7	1166; 2336; 2525; 3387; 3805; 4824; 4952
Alw44I	G!TGCAC	2	1984; 5567
AlwNI	CAGNNN!CTG	4	818; 2571; 5064; 5472
Ama87I	C!YCGRG	3	613; 634; 2162
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	2	1017; 1768
ApaBI	GCANNNNN!TGC	4	678; 3531; 3603; 5065
ApaLI	G!TGCAC	2	1984; 5567
ApeKI	G!CWGC	21	652; 664; 840; 1179; 1456; 2103; 2247; 2545; 2739; 3258; 3923; 4024; 4066; 4107; 4200; 4587; 5040; 5266; 5472; 5475; 5540
ApoI	R!AATY	4	1850; 2777; 2881; 2892
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4478
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4272; 4925; 5763
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4362
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	2079
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	3	1641; 1844; 3791
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	3	1179; 2140; 4533
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	25	586; 610; 1190; 1744; 1889; 2269; 2419; 2445; 2621; 3801; 3805; 3824; 4135; 4213; 4294; 4303; 4381; 4757; 4773; 5132; 5144; 5222; 5230; 5241; 5316
AsiGI	A!CCGGT	1	1894
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4081
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3785; 4800
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	26	597; 620; 641; 689; 1642; 1886; 3229; 3237; 3263; 3285; 3294; 3307; 3338; 3957; 3965; 4029; 4066; 4332; 4592; 4768; 4854; 5257; 5366; 5540; 5640; 5707
AspS9I	G!GNCC	17	83; 276; 631; 1014; 1211; 1765; 1780; 2054; 2297; 2389; 2410; 3070; 4479; 4924; 4970; 5028; 5061
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4645
AsuC2I	CC!SGG	8	635; 636; 643; 2478; 3967; 4127; 4740; 5504
AsuHPI	GGTGANNNNNNNN!	9	376; 718; 863; 1289; 1429; 1921; 2290; 5034; 5150
AsuHPI	!NNNNNNNTCACC	7	877; 907; 1218; 1318; 2179; 3080; 4141

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AsuNI	G!CTAGC	1	591
AvaI	C!YCGRG	3	613; 634; 2162
AvaII	G!GWCC	3	1780; 4479; 4924
AviII	TGC!GCA	1	4065
AvrII	C!CTAGG	2	3785; 4800
AxyI	CC!TNAGG	2	3443; 5075
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	11	1017; 1242; 1411; 1768; 1961; 1988; 2021; 2598; 3909; 4002; 5571
BalI	TGG!CCA	3	740; 2564; 4045
BamHI	G!GATCC	1	1888
BanI	G!GYRCC	8	465; 638; 1406; 1958; 2018; 3116; 3962; 3997
BanII	GRGCY!C	7	873; 1017; 1542; 1768; 3154; 4328; 5038
BanIII	AT!CGAT	1	3803
BarI	GAAGNNNNNTACNNNNNNNNNN!	3	920; 1736; 2455
BarI	!NNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	3	888; 1704; 2423
BasI	CCANNNN!NTGG	1	1208
BauI	C!ACGAG	3	2549; 4681; 5708
BauI	C!TCGTG	2	2399; 4555
BbeI	GGCGC!C	2	642; 3966
Bbr7I	GAAGACNNNNNN!	3	2210; 2443; 2511
Bbr7I	!NNNNNNNNNNNGTCTTC	1	1643
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	3	2205; 2438; 2506
BbsI	!NNNNNNGTCTTC	1	1648
BbuI	GCATG!C	3	3533; 3605; 4368
BbvI	GCAGCNNNNNNNN!	9	852; 2115; 2557; 2751; 4036; 4078; 4599; 5052; 5552
BbvI	!NNNNNNNNNNNGCTGC	10	639; 1166; 1443; 2234; 3245; 3910; 4094; 4187; 5253; 5459
Bbv12I	GWGCW!C	6	1119; 1623; 1988; 4076; 4266; 5571
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	1850; 2296; 3093; 3657; 4183; 4685
BccI	!NNNNNGATGG	3	3061; 3841; 4269
BceAI	ACGGCNNNNNNNNNN!	7	736; 2116; 2260; 2311; 2377; 4389; 4876
BceAI	!NNNNNNNNNNNNNGCCGT	3	3104; 3922; 5381
Bcefl	ACGGCNNNNNNNNNN!	7	736; 2116; 2260; 2311; 2377; 4389; 4876
Bcefl	!NNNNNNNNNNNNNGCCGT	3	3105; 3923; 5382
BcgI	CGANNNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	1	1624
BcgI	GCANNNNNNNTCGNNNNNNNNNN!	1	1658
BcgI	!NNNNNNNNNNNCGANNNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3392; 4182; 5683
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	8	635; 636; 643; 2478; 3967; 4127; 4740; 5504
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNNTCANNNNNNNNNN!	1	5816
BdaI	!NNNNNNNNNNNTGANNNNNNNTCA	1	5782
BfaI	C!TAG	10	592; 1482; 2583; 2618; 2812; 3230; 3786; 4801; 5135; 5388
BfiI	ACTGGGNNNNN!	3	1218; 2600; 3912
BfiI	!NNNNCCCAGT	4	289; 1245; 1405; 3664
BfmI	C!TRYAG	5	819; 1457; 3298; 5425; 5616
BfoI	RGCGC!Y	9	598; 621; 642; 690; 1643; 3230; 3238; 3966; 5641
BfrI	C!TTAAG	1	2845
BfuI	GTATCCNNNNNN!	3	3392; 4182; 5683
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	1152; 1298; 4231; 4681
BfuAI	!NNNNNNNNGCAGGT	1	3850

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BfuCI	!GATC	25	585; 609; 1189; 1743; 1888; 2268; 2418; 2444; 2620; 3800; 3804; 3823; 4134; 4212; 4293; 4302; 4380; 4756; 4772; 5131; 5143; 5221; 5229; 5240; 5315
BglI	GCCNNNN!NGGC	8	90; 212; 283; 626; 1307; 2373; 2387; 3738
BglII	A!GATCT	1	609
BisI	GC!NGC	41	630; 653; 665; 841; 1180; 1457; 2053; 2104; 2248; 2365; 2546; 2607; 2610; 2740; 3259; 3281; 3295; 3733; 3872; 3924; 3935; 4025; 4030; 4067; 4108; 4195; 4198; 4201; 4437; 4533; 4574; 4588; 4702; 5041; 5056; 5267; 5473; 5476; 5541; 5684; 5839
BlnI	C!CTAGG	2	3785; 4800
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	41	631; 654; 666; 842; 1181; 1458; 2054; 2105; 2249; 2366; 2547; 2608; 2611; 2741; 3260; 3282; 3296; 3734; 3873; 3925; 3936; 4026; 4031; 4068; 4109; 4196; 4199; 4202; 4438; 4534; 4575; 4589; 4703; 5042; 5057; 5268; 5474; 5477; 5542; 5685; 5840
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1780; 4479; 4924
Bme1390I	CC!NGG	28	90; 283; 635; 636; 643; 1136; 1451; 1673; 1769; 2081; 2129; 2225; 2240; 2369; 2478; 3499; 3554; 3571; 3967; 4127; 4350; 4740; 4929; 5032; 5504; 5722; 5735; 5856
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	3	613; 634; 2162
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	17	84; 277; 632; 1015; 1212; 1766; 1781; 2055; 2298; 2390; 2411; 3071; 4480; 4925; 4971; 5029; 5062
BmiI	GGN!NCC	27	467; 633; 640; 1015; 1288; 1408; 1766; 1858; 1867; 1876; 1890; 1960; 2020; 2411; 3118; 3139; 3151; 3342; 3503; 3575; 3964; 3999; 4847; 4926; 4971; 5814; 5853
BmrI	ACTGGGNNNNN!	3	1218; 2600; 3912
BmrI	!NNNNCCCAGT	4	289; 1245; 1405; 3664
BmrFI	CC!NGG	28	90; 283; 635; 636; 643; 1136; 1451; 1673; 1769; 2081; 2129; 2225; 2240; 2369; 2478; 3499; 3554; 3571; 3967; 4127; 4350; 4740; 4929; 5032; 5504; 5722; 5735; 5856
BmsI	GCATCNNNNN!	7	2142; 2779; 3542; 3614; 4262; 4326; 4601
BmsI	!NNNNNNNNNGATGC	8	357; 1519; 2295; 2463; 3921; 4176; 4392; 5784
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	3	1218; 2600; 3912
BmuI	!NNNNCCCAGT	4	289; 1245; 1405; 3664
BoxI	GACNN!NNGTC	1	2537
BpiI	GAAGACNN!	3	2205; 2438; 2506
BpiI	!NNNNNNGTCTTC	1	1648
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3752; 4651
BpI	!NNNNNNNNGAGNNNNNNCTC	2	3720; 4619
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	1472; 4803
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	2	2222; 4746
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	4645
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	3	2205; 2438; 2506
BpuAI	!NNNNNNGTCTTC	1	1648
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	5257; 5796
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	3	2453; 4339; 5498
BpuMI	CC!SGG	8	635; 636; 643; 2478; 3967; 4127; 4740; 5504
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	1	799
BsaI	!NNNNNGAGACC	3	2336; 2525; 4952
Bsa29I	AT!CGAT	1	3803
BsaAI	YAC!GTR	3	340; 3079; 4267
BsaBI	GATNN!NNATC	2	2625; 3822
BsaHI	GR!CGYC	10	122; 175; 258; 444; 639; 646; 2481; 3963; 4665; 4744
BsaJI	C!CNNGG	24	360; 624; 633; 1767; 1905; 1992; 2127; 2128; 2163; 2223; 3497; 3569; 3692; 3727; 3736; 3785; 4126; 4395; 4800; 4927; 4928; 5030; 5031; 5721
BsaMI	GAATGCN!	3	865; 1477; 2714
BsaMI	G!CATTC	2	1364; 2807

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BsaWI	W!CCGGW	6	600; 1894; 3994; 4838; 5528; 5675
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3043
BsaXI	!NNNNNNNGGAGNNNNNGT	1	1445
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	1475
BsaXI	!NNNNNNNNACNNNNNCTCC	1	3013
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	2	959; 1371
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	2964; 4871
Bsc4I	CCNNNNN!NNGG	23	49; 1208; 1429; 1773; 2015; 2128; 2294; 2360; 2975; 3301; 3693; 3944; 4488; 4769; 4801; 4933; 4968; 5018; 5050; 5403; 5682; 5848; 5866
BscAI	GCATCNNNN!	7	2141; 2778; 3541; 3613; 4261; 4325; 4600
BscAI	!NNNNNNNGATGC	8	360; 1522; 2298; 2466; 3924; 4179; 4395; 5787
Bse1I	ACTGGN!	7	1213; 1279; 2508; 2595; 3907; 4108; 5354
Bse1I	C!CAGT	8	295; 1251; 1411; 1584; 2992; 3670; 5466; 5479
Bse8I	GATNN!NNATC	2	2625; 3822
Bse21I	CC!TNAGG	2	3443; 5075
Bse118I	R!CCGGY	8	1862; 1871; 1880; 1894; 3180; 4282; 4463; 4746
BseAI	T!CCGGA	0	
BseBI	CC!WGG	20	90; 283; 1136; 1451; 1673; 1769; 2081; 2129; 2225; 2240; 2369; 3499; 3554; 3571; 4350; 4929; 5032; 5722; 5735; 5856
BseCI	AT!CGAT	1	3803
BseDI	C!CNNGG	24	360; 624; 633; 1767; 1905; 1992; 2127; 2128; 2163; 2223; 3497; 3569; 3692; 3727; 3736; 3785; 4126; 4395; 4800; 4927; 4928; 5030; 5031; 5721
Bse3DI	GCAATGNN!	1	4196
Bse3DI	!CATTGC	1	1749
BseGI	GGATGNN!	5	1473; 3823; 4280; 4305; 4759
BseGI	!CATCC	5	1988; 2076; 2133; 2288; 3649
BseJI	GATNN!NNATC	2	2625; 3822
BseLI	CCNNNNN!NNGG	23	49; 1208; 1429; 1773; 2015; 2128; 2294; 2360; 2975; 3301; 3693; 3944; 4488; 4769; 4801; 4933; 4968; 5018; 5050; 5403; 5682; 5848; 5866
BseMI	GCAATGNN!	1	4196
BseMI	!CATTGC	1	1749
BseMII	CTCAGNNNNNNNNNN!	2	620; 5089
BseMII	!NNNNNNNCTGAG	6	858; 3434; 3736; 4617; 5189; 5598
BseNI	ACTGGN!	7	1213; 1279; 2508; 2595; 3907; 4108; 5354
BseNI	C!CAGT	8	295; 1251; 1411; 1584; 2992; 3670; 5466; 5479
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	3	1631; 1834; 3781
BseRI	!NNNNNNNCTCCTC	0	
BseSI	GKGC!C	11	1017; 1242; 1411; 1768; 1961; 1988; 2021; 2598; 3909; 4002; 5571
BseXI	GCAGCNNNNNNNN!	9	852; 2115; 2557; 2751; 4036; 4078; 4599; 5052; 5552
BseXI	!NNNNNNNNNNNGCTGC	10	639; 1166; 1443; 2234; 3245; 3910; 4094; 4187; 5253; 5459
BseX3I	C!GGCCG	2	2607; 3869
BseYI	C!CCAGC	5	691; 1217; 3506; 3578; 5577
BseYI	G!CTGGG	2	2325; 4467
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	17	60; 1829; 1886; 2612; 2887; 3263; 3283; 3307; 3338; 4029; 4330; 4768; 4852; 4915; 4984; 5257; 5838
Bsh1285I	CGRY!CG	5	1899; 2046; 2610; 3872; 5547
BshFI	GG!CC	37	84; 277; 632; 675; 740; 1015; 1139; 1213; 1301; 1583; 1766; 2055; 2298; 2333; 2367; 2390; 2412; 2522; 2564; 2609; 2929; 3071; 3726; 3732; 3741; 3784; 3871; 4045; 4436; 4463; 4972; 5029; 5062; 5407; 5841; 5859; 5870
BshNI	G!GYRCC	8	465; 638; 1406; 1958; 2018; 3116; 3962; 3997
BshTI	A!CCGGT	1	1894
BshVI	AT!CGAT	1	3803
BsiEI	CGRY!CG	5	1899; 2046; 2610; 3872; 5547
BsiHKAI	GWGCW!C	6	1119; 1623; 1988; 4076; 4266; 5571
BsiHKCI	C!YCGRG	3	613; 634; 2162
BsiSI	C!CGG	24	601; 635; 643; 1863; 1872; 1881; 1895; 2478; 3181; 3868; 3945; 3967; 3995; 4126; 4216; 4283; 4464; 4739; 4747; 4839; 5313; 5503; 5529; 5676

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BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	23	49; 1208; 1429; 1773; 2015; 2128; 2294; 2360; 2975; 3301; 3693; 3944; 4488; 4769; 4801; 4933; 4968; 5018; 5050; 5403; 5682; 5848; 5866
BsIFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1136; 1411; 4114; 4646; 4755
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3479; 3551; 3615; 4910
BsmI	GAATGCN!	3	865; 1477; 2714
BsmI	G!CATTC	2	1364; 2807
BsmAI	GTCTCN!	2	434; 799
BsmAI	!NNNNNGAGAC	7	1166; 2336; 2525; 3387; 3805; 4824; 4952
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1136; 1411; 4114; 4646; 4755
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3479; 3551; 3615; 4910
BsnI	GG!CC	37	84; 277; 632; 675; 740; 1015; 1139; 1213; 1301; 1583; 1766; 2055; 2298; 2333; 2367; 2390; 2412; 2522; 2564; 2609; 2929; 3071; 3726; 3732; 3741; 3784; 3871; 4045; 4436; 4463; 4972; 5029; 5062; 5407; 5841; 5859; 5870
Bso31I	GGTCTCN!	1	799
Bso31I	!NNNNNGAGACC	3	2336; 2525; 4952
BsoBI	C!YCGRG	3	613; 634; 2162
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	5	360; 624; 1905; 3692; 4395
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4766
Bsp24I	!NNNNNNCCANNNNNGTC	2	5187; 5365
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	5219; 5397
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4734
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4645
Bsp120I	G!GGCCC	2	1013; 1764
Bsp143I	!GATC	25	585; 609; 1189; 1743; 1888; 2268; 2418; 2444; 2620; 3800; 3804; 3823; 4134; 4212; 4293; 4302; 4380; 4756; 4772; 5131; 5143; 5221; 5229; 5240; 5315
Bsp1286I	GDGCH!C	20	873; 1017; 1119; 1242; 1411; 1542; 1623; 1768; 1961; 1988; 2021; 2598; 3154; 3909; 4002; 4076; 4266; 4328; 5038; 5571
Bsp1407I	T!GTACA	2	1720; 1947
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 650; 2217; 2355; 2457; 2610; 3278; 3281; 3295; 3385; 3633; 3645; 3654; 3666; 3676; 3687; 3733; 3872; 3935; 4437; 4482; 4548; 4574; 4699; 4702; 4850; 4982; 5289; 5433; 5929
BspACI	G!CGG	33	370; 403; 528; 629; 1404; 1761; 1829; 1886; 2042; 2052; 2364; 2406; 2606; 3223; 3250; 3338; 3448; 4029; 4093; 4194; 4197; 4477; 4532; 4630; 4768; 4915; 5055; 5298; 5543; 5664; 5683; 5810; 5838
BspCNI	CTCAGNNNNNNNN!	2	619; 5088
BspCNI	!NNNNNNCTGAG	6	859; 3435; 3737; 4618; 5190; 5599
BspDI	AT!CGAT	1	3803
BspD6I	GACTCNNNN!	7	418; 612; 1527; 2622; 3036; 4642; 5519
BspD6I	!NNNNNGAGTC	5	1439; 1815; 2177; 2999; 3431
BspEI	T!CCGGA	0	
BspFNI	CG!CG	17	60; 1829; 1886; 2612; 2887; 3263; 3283; 3307; 3338; 4029; 4330; 4768; 4852; 4915; 4984; 5257; 5838
BspHI	T!CATGA	2	3389; 5161
BspLI	GGN!NCC	27	467; 633; 640; 1015; 1288; 1408; 1766; 1858; 1867; 1876; 1890; 1960; 2020; 2411; 3118; 3139; 3151; 3342; 3503; 3575; 3964; 3999; 4847; 4926; 4971; 5814; 5853
BspMI	ACCTGCNNNN!	4	1152; 1298; 4231; 4681
BspMI	!NNNNNNNGCAGGT	1	3850
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	1197; 1896; 3831; 4142; 4388; 4780; 5139; 5237; 5323
BspPI	!NNNNNGATCC	8	580; 1738; 1883; 2439; 4207; 4751; 5138; 5235
BspQI	GCTCTTCN!	1	1581
BspQI	!NNNNGAAGAGC	2	4307; 4517
BspTI	C!TTAAG	1	2845
BspT104I	TT!CGAA	1	4645
BspT107I	G!GYRCC	8	465; 638; 1406; 1958; 2018; 3116; 3962; 3997

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspTNI	GGTCTCN!	1	799
BspTNI	!NNNNGAGACC	3	2336; 2525; 4952
BsrI	ACTGGN!	7	1213; 1279; 2508; 2595; 3907; 4108; 5354
BsrI	C!CAGT	8	295; 1251; 1411; 1584; 2992; 3670; 5466; 5479
BsrBI	CCG!CTC	2	3387; 4576
BsrBI	GAG!CGG	3	2606; 3223; 4630
BsrDI	GCAATGNN!	1	4196
BsrDI	!CATTGC	1	1749
BsrFI	R!CCGGY	8	1862; 1871; 1880; 1894; 3180; 4282; 4463; 4746
BsrGI	T!GTACA	2	1720; 1947
BsrSI	ACTGGN!	7	1213; 1279; 2508; 2595; 3907; 4108; 5354
BsrSI	C!CAGT	8	295; 1251; 1411; 1584; 2992; 3670; 5466; 5479
BssAI	R!CCGGY	8	1862; 1871; 1880; 1894; 3180; 4282; 4463; 4746
BssECI	C!CNNGG	24	360; 624; 633; 1767; 1905; 1992; 2127; 2128; 2163; 2223; 3497; 3569; 3692; 3727; 3736; 3785; 4126; 4395; 4800; 4927; 4928; 5030; 5031; 5721
BssHII	G!CGCGC	0	
BssKI	!CCNGG	28	88; 281; 633; 634; 641; 1134; 1449; 1671; 1767; 2079; 2127; 2223; 2238; 2367; 2476; 3497; 3552; 3569; 3965; 4125; 4348; 4738; 4927; 5030; 5502; 5720; 5733; 5854
BssMI	!GATC	25	585; 609; 1189; 1743; 1888; 2268; 2418; 2444; 2620; 3800; 3804; 3823; 4134; 4212; 4293; 4302; 4380; 4756; 4772; 5131; 5143; 5221; 5229; 5240; 5315
BssNI	GR!CGYC	10	122; 175; 258; 444; 639; 646; 2481; 3963; 4665; 4744
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	2549; 4681; 5708
BssSI	C!TCGTG	2	2399; 4555
BssTII	C!CWWGG	7	360; 624; 1905; 3692; 3785; 4395; 4800
Bst6I	CTCTCN!	2	1527; 1581
Bst6I	!NNNNGAAGAG	6	1164; 1707; 1811; 3430; 4307; 4517
Bst98I	C!TTAAG	1	2845
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 639; 646; 2481; 3963; 4665; 4744
BstAFI	C!TTAAG	1	2845
BstAPI	GCANNNN!NTGC	4	677; 3530; 3602; 5064
BstAUI	T!GTACA	2	1720; 1947
BstBI	TT!CGAA	1	4645
Bst2BI	C!ACGAG	3	2549; 4681; 5708
Bst2BI	C!TCGTG	2	2399; 4555
BstBAI	YAC!GTR	3	340; 3079; 4267
Bst4CI	ACN!GT	20	76; 198; 269; 543; 581; 699; 944; 1024; 1354; 1613; 1730; 1963; 3054; 4343; 4459; 4567; 4890; 5381; 5851; 5922
BstC8I	GCN!NGC	40	86; 279; 593; 669; 673; 742; 813; 1003; 1299; 1644; 1664; 1831; 1916; 2006; 2210; 3182; 3225; 3239; 3512; 3531; 3584; 3603; 3857; 4043; 4262; 4328; 4334; 4362; 4366; 4407; 4411; 4465; 4748; 4935; 4982; 5038; 5060; 5271; 5831; 5868
BstDEI	C!TNAG	10	606; 789; 867; 2460; 3443; 3745; 4626; 5075; 5198; 5607
BstDSI	C!CRYGG	5	360; 624; 1905; 3692; 4395
BstEII	G!GTNACC	1	1417
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	5	1473; 3823; 4280; 4305; 4759
BstF5I	!CATCC	5	1988; 2076; 2133; 2288; 3649
BstFNI	CG!CG	17	60; 1829; 1886; 2612; 2887; 3263; 3283; 3307; 3338; 4029; 4330; 4768; 4852; 4915; 4984; 5257; 5838
BstH2I	RGCGC!Y	9	598; 621; 642; 690; 1643; 3230; 3238; 3966; 5641
BstHHI	GCG!C	26	597; 620; 641; 689; 1642; 1886; 3229; 3237; 3263; 3285; 3294; 3307; 3338; 3957; 3965; 4029; 4066; 4332; 4592; 4768; 4854; 5257; 5366; 5540; 5640; 5707
BstKTI	GAT!C	25	588; 612; 1192; 1746; 1891; 2271; 2421; 2447; 2623; 3803; 3807; 3826; 4137; 4215; 4296; 4305; 4383; 4759; 4775; 5134; 5146; 5224; 5232; 5243; 5318
BstMAI	GTCTCN!	2	434; 799
BstMAI	!NNNNGAGAC	7	1166; 2336; 2525; 3387; 3805; 4824; 4952
BstMBI	!GATC	25	585; 609; 1189; 1743; 1888; 2268; 2418; 2444; 2620; 3800; 3804; 3823; 4134; 4212; 4293; 4302; 4380; 4756; 4772; 5131; 5143; 5221; 5229; 5240; 5315
BstMCI	CGRY!CG	5	1899; 2046; 2610; 3872; 5547

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstMWI	GCNNNNN!NNGC	38	90; 212; 244; 283; 376; 400; 626; 638; 652; 677; 1161; 1307; 1580; 1863; 1872; 1881; 1942; 2373; 2387; 3190; 3220; 3247; 3289; 3530; 3602; 3653; 3732; 3954; 4038; 4061; 4200; 4323; 4406; 4673; 4860; 5064; 5263; 5835
BstNI	CC!WGG	20	90; 283; 1136; 1451; 1673; 1769; 2081; 2129; 2225; 2240; 2369; 3499; 3554; 3571; 4350; 4929; 5032; 5722; 5735; 5856
BstNSI	RCATG!Y	8	785; 958; 1741; 1936; 3533; 3605; 4368; 5885
BstOI	CC!WGG	20	90; 283; 1136; 1451; 1673; 1769; 2081; 2129; 2225; 2240; 2369; 3499; 3554; 3571; 4350; 4929; 5032; 5722; 5735; 5856
BstPI	G!GTNACC	1	1417
BstPAI	GACNN!NNGTC	1	2537
BstSCI	!CCNGG	28	88; 281; 633; 634; 641; 1134; 1449; 1671; 1767; 2079; 2127; 2223; 2238; 2367; 2476; 3497; 3552; 3569; 3965; 4125; 4348; 4738; 4927; 5030; 5502; 5720; 5733; 5854
BstSFI	C!TRYAG	5	819; 1457; 3298; 5425; 5616
BstSLI	GKGCM!C	11	1017; 1242; 1411; 1768; 1961; 1988; 2021; 2598; 3909; 4002; 5571
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	17	60; 1829; 1886; 2612; 2887; 3263; 3283; 3307; 3338; 4029; 4330; 4768; 4852; 4915; 4984; 5257; 5838
Bst2UI	CC!WGG	20	90; 283; 1136; 1451; 1673; 1769; 2081; 2129; 2225; 2240; 2369; 3499; 3554; 3571; 4350; 4929; 5032; 5722; 5735; 5856
BstV1I	GCAGCNNNNNNN!	9	852; 2115; 2557; 2751; 4036; 4078; 4599; 5052; 5552
BstV1I	!NNNNNNNNNNNGCTGC	10	639; 1166; 1443; 2234; 3245; 3910; 4094; 4187; 5253; 5459
BstV2I	GAAGACNN!	3	2205; 2438; 2506
BstV2I	!NNNNNGTCTTC	1	1648
BstXI	CCANNNNN!NTGG	1	1756
BstX2I	R!GATCY	11	585; 609; 1888; 2444; 4134; 4380; 4772; 5131; 5143; 5229; 5240
BstYI	R!GATCY	11	585; 609; 1888; 2444; 4134; 4380; 4772; 5131; 5143; 5229; 5240
BstZI	C!GGCCG	2	2607; 3869
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3392; 4182; 5683
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3803
Bsu36I	CC!TNAGG	2	3443; 5075
BsuRI	GG!CC	37	84; 277; 632; 675; 740; 1015; 1139; 1213; 1301; 1583; 1766; 2055; 2298; 2333; 2367; 2390; 2412; 2522; 2564; 2609; 2929; 3071; 3726; 3732; 3741; 3784; 3871; 4045; 4436; 4463; 4972; 5029; 5062; 5407; 5841; 5859; 5870
BsuTUI	AT!CGAT	1	3803
BtgI	C!CRYGG	5	360; 624; 1905; 3692; 4395
BtgZI	GCGATGNNNNNNNNNN!	2	3080; 4415
BtgZI	!NNNNNNNNNNNNNNCATCGC	4	334; 1780; 4234; 4578
BthCI	GCNG!C	41	632; 655; 667; 843; 1182; 1459; 2055; 2106; 2250; 2367; 2548; 2609; 2612; 2742; 3261; 3283; 3297; 3735; 3874; 3926; 3937; 4027; 4032; 4069; 4110; 4197; 4200; 4203; 4439; 4535; 4576; 4590; 4704; 5043; 5058; 5269; 5475; 5478; 5543; 5686; 5841
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1310; 2802
BtsCI	GGATGNN!	5	1473; 3823; 4280; 4305; 4759
BtsCI	!CATCC	5	1988; 2076; 2133; 2288; 3649
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	1152; 1298; 4231; 4681
BveI	!NNNNNNNNNGCAGGT	1	3850
Cac8I	GCN!NGC	40	86; 279; 593; 669; 673; 742; 813; 1003; 1299; 1644; 1664; 1831; 1916; 2006; 2210; 3182; 3225; 3239; 3512; 3531; 3584; 3603; 3857; 4043; 4262; 4328; 4334; 4362; 4366; 4407; 4411; 4465; 4748; 4935; 4982; 5038; 5060; 5271; 5831; 5868
CaiI	CAGNNN!CTG	4	818; 2571; 5064; 5472
CciI	T!CATGA	2	3389; 5161
CciNI	GC!GGCCGC	1	2607
CdiI	CATC!G	8	352; 1789; 1798; 1810; 4252; 4257; 4455; 4596
CdiI	C!GATG	3	1070; 3066; 4401

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	5835
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3624; 3666
CelII	GC!TNAGC	0	
CfoI	GCG!C	26	597; 620; 641; 689; 1642; 1886; 3229; 3237; 3263; 3285; 3294; 3307; 3338; 3957; 3965; 4029; 4066; 4332; 4592; 4768; 4854; 5257; 5366; 5540; 5640; 5707
CfrI	Y!GGCCR	7	738; 2562; 2607; 3869; 4043; 4434; 4461
Cfr9I	C!CCGGG	1	634
Cfr10I	R!CCGGY	8	1862; 1871; 1880; 1894; 3180; 4282; 4463; 4746
Cfr13I	G!GNCC	17	83; 276; 631; 1014; 1211; 1765; 1780; 2054; 2297; 2389; 2410; 3070; 4479; 4924; 4970; 5028; 5061
Cfr42I	CCGC!GG	0	
ChaI	GATC!	25	589; 613; 1193; 1747; 1892; 2272; 2422; 2448; 2624; 3804; 3808; 3827; 4138; 4216; 4297; 4306; 4384; 4760; 4776; 5135; 5147; 5225; 5233; 5244; 5319
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	7	974; 1254; 2000; 3780; 5220; 5320; 5398
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 3447; 3542; 4734; 5284; 5839
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 3481; 3576; 4768; 5318; 5873
CjeI	!NNNNNNNNCCANNNNNNGT	7	940; 1220; 1966; 3746; 5186; 5286; 5364
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	3	717; 5220; 5398
CjePI	!NNNNNNNNGANNNNNNNTGG	4	257; 2370; 4734; 5333
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	4	290; 2403; 4767; 5366
CjePI	!NNNNNNNNCCANNNNNNNTC	3	684; 5187; 5365
Clal	AT!CGAT	1	3803
CpoI	CG!GWCCG	1	4479
CseI	GACGCNNNNN!	4	526; 1133; 4673; 4752
CseI	!NNNNNNNNNNGCGTC	5	635; 2470; 3296; 5191; 5769
CsiI	A!CCWGGT	1	3552
CspI	CG!GWCCG	1	4479
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 1264; 1721; 1948; 2098; 2350; 4268
Csp45I	TT!CGAA	1	4645
CspAI	A!CCGGT	1	1894
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	2	411; 1410
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNGTGG	2	376; 1375
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	5	1525; 1950; 2541; 3243; 4852
CstMI	!NNNNNNNNNNNNNNNNNNNCTCCTT	1	735
CviAII	C!ATG	30	301; 361; 625; 782; 955; 1096; 1333; 1516; 1738; 1906; 1933; 1939; 1951; 2029; 2095; 2175; 2386; 3390; 3530; 3602; 3693; 3834; 4179; 4365; 4396; 4422; 4778; 5162; 5882; 5933
CviJI	RG!CY	118	42; 84; 93; 277; 566; 632; 675; 740; 744; 776; 815; 843; 871; 1005; 1015; 1139; 1213; 1221; 1301; 1456; 1485; 1540; 1574; 1583; 1676; 1766; 1777; 1833; 1857; 1866; 1875; 1918; 1945; 2008; 2055; 2084; 2091; 2169; 2235; 2247; 2298; 2325; 2333; 2367; 2381; 2390; 2398; 2412; 2522; 2558; 2564; 2609; 2632; 2742; 2909; 2929; 3071; 3152; 3166; 3180; 3461; 3502; 3574; 3697; 3726; 3732; 3741; 3749; 3772; 3784; 3790; 3871; 3888; 3896; 3923; 3948; 4032; 4041; 4045; 4069; 4107; 4183; 4200; 4219; 4282; 4326; 4336; 4353; 4436; 4463; 4467; 4504; 4527; 4543; 4723; 4750; 4811; 4933; 4972; 5029; 5036; 5043; 5062; 5073; 5324; 5353; 5396; 5407; 5472; 5551; 5576; 5581; 5627; 5717; 5815; 5841; 5859; 5870
CviKI-1	RG!CY	118	42; 84; 93; 277; 566; 632; 675; 740; 744; 776; 815; 843; 871; 1005; 1015; 1139; 1213; 1221; 1301; 1456; 1485; 1540; 1574; 1583; 1676; 1766; 1777; 1833; 1857; 1866; 1875; 1918; 1945; 2008; 2055; 2084; 2091; 2169; 2235; 2247; 2298; 2325; 2333; 2367; 2381; 2390; 2398; 2412; 2522; 2558; 2564; 2609; 2632; 2742; 2909; 2929; 3071; 3152; 3166; 3180; 3461; 3502; 3574; 3697; 3726; 3732; 3741; 3749; 3772; 3784; 3790; 3871; 3888; 3896; 3923; 3948; 4032; 4041; 4045; 4069; 4107; 4183; 4200; 4219; 4282; 4326; 4336; 4353; 4436; 4463; 4467; 4504; 4527; 4543; 4723; 4750; 4811; 4933; 4972; 5029; 5036; 5043; 5062; 5073; 5324; 5353; 5396; 5407; 5472; 5551; 5576; 5581; 5627; 5717; 5815; 5841; 5859; 5870
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 1264; 1721; 1948; 2098; 2350; 4268
DdeI	C!TNAG	10	606; 789; 867; 2460; 3443; 3745; 4626; 5075; 5198; 5607

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DinI	GGC!GCC	2	640; 3964
DpnI	GA!TC	25	587; 611; 1191; 1745; 1890; 2270; 2420; 2446; 2622; 3802; 3806; 3825; 4136; 4214; 4295; 4304; 4382; 4758; 4774; 5133; 5145; 5223; 5231; 5242; 5317
DpnII	!GATC	25	585; 609; 1189; 1743; 1888; 2268; 2418; 2444; 2620; 3800; 3804; 3823; 4134; 4212; 4293; 4302; 4380; 4756; 4772; 5131; 5143; 5221; 5229; 5240; 5315
DraI	TTT!AAA	3	2665; 5107; 5126
DraII	RG!GNCCY	3	1013; 1764; 5061
DraIII	CACNNN!GTG	3	729; 2554; 3079
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	3	266; 1287; 5443
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	4	1088; 3034; 3990; 5779
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	1088; 3034; 3990; 5779
EaeI	Y!GGCCR	7	738; 2562; 2607; 3869; 4043; 4434; 4461
EagI	C!GGCCG	2	2607; 3869
Eam1104I	CTCTCN!	2	1527; 1581
Eam1104I	!NNNNGAAGAG	6	1164; 1707; 1811; 3430; 4307; 4517
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	2	1527; 1581
EarI	!NNNNGAAGAG	6	1164; 1707; 1811; 3430; 4307; 4517
EciI	GGCGGANNNNNNNNNNNN!	4	3463; 4492; 5679; 5825
EciI	!NNNNNNNNNTCCGCC	4	496; 3634; 3655; 3676
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	2	2607; 3869
Eco24I	GRGCY!C	7	873; 1017; 1542; 1768; 3154; 4328; 5038
Eco31I	GGTCTCN!	1	799
Eco31I	!NNNNNGAGACC	3	2336; 2525; 4952
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1780; 4479; 4924
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	2607; 3869
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	5	851; 1445; 2414; 4109; 4541
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	4	1144; 1562; 1642; 5339
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	3443; 5075
Eco88I	C!YCGRG	3	613; 634; 2162
Eco91I	G!GTNACC	1	1417
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	7	360; 624; 1905; 3692; 3785; 4395; 4800
Eco147I	AGG!CCT	4	675; 1139; 2333; 3784
EcoHI	!CCSGG	8	633; 634; 641; 2476; 3965; 4125; 4738; 5502
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	7	851; 1445; 1472; 2414; 4109; 4541; 4803
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	6	1144; 1562; 1642; 2222; 4746; 5339
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	1	1417
Eco0109I	RG!GNCCY	3	1013; 1764; 5061
EcoRI	G!AATTC	1	1850
EcoRII	!CCWGG	20	88; 281; 1134; 1449; 1671; 1767; 2079; 2127; 2223; 2238; 2367; 3497; 3552; 3569; 4348; 4927; 5030; 5720; 5733; 5854
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	7	360; 624; 1905; 3692; 3785; 4395; 4800
EcoT22I	ATGCA!T	3	3535; 3607; 5938
EcoT38I	GRGCY!C	7	873; 1017; 1542; 1768; 3154; 4328; 5038
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	2	640; 3964
EheI	GGC!GCC	2	640; 3964
ErhI	C!CWWGG	7	360; 624; 1905; 3692; 3785; 4395; 4800
EsaBC3I	TC!GA	17	615; 703; 798; 2047; 2074; 2542; 3113; 3804; 4077; 4233; 4257; 4293; 4455; 4646; 4691; 4946; 5784
Esp3I	CGTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	30	304; 364; 628; 785; 958; 1099; 1336; 1519; 1741; 1909; 1936; 1942; 1954; 2032; 2098; 2178; 2389; 3393; 3533; 3605; 3696; 3837; 4182; 4368; 4399; 4425; 4781; 5165; 5885; 5936
Fail	YA!TR	79	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 626; 734; 771; 783; 803; 956; 967; 969; 1066; 1097; 1307; 1334; 1392; 1517; 1535; 1600; 1739; 1907; 1934; 1940; 1952; 2030; 2096; 2176; 2194; 2387; 2440; 2490; 2625; 2635; 2701; 2746; 2951; 3379; 3391; 3522; 3531; 3594; 3603; 3627; 3694; 3718; 3835; 3899; 4180; 4205; 4366; 4397; 4423; 4495; 4711; 4779; 4857; 4909; 5070; 5087; 5089; 5091; 5163; 5441; 5630; 5746; 5819; 5883; 5934
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	2173; 4303
FalI	!NNNNNNNNNAAGNNNNNCTT	2	2141; 4271
FaqI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1136; 1411; 4114; 4646; 4755
FaqI	!NNNNNNNNNNNNNGTCCC	4	3479; 3551; 3615; 4910
FatI	!CATG	30	300; 360; 624; 781; 954; 1095; 1332; 1515; 1737; 1905; 1932; 1938; 1950; 2028; 2094; 2174; 2385; 3389; 3529; 3601; 3692; 3833; 4178; 4364; 4395; 4421; 4777; 5161; 5881; 5932
FauI	CCCGCNNNN!	10	93; 119; 286; 2362; 2464; 3285; 3640; 3661; 4857; 4989
FauI	!NNNNNGCGGG	8	1754; 1822; 2399; 3216; 4086; 4623; 4761; 4908
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	2	1092; 2484
FmuI	GGNC!C	17	86; 279; 634; 1017; 1214; 1768; 1783; 2057; 2300; 2392; 2413; 3073; 4482; 4927; 4973; 5031; 5064
Fnu4HI	GC!NGC	41	630; 653; 665; 841; 1180; 1457; 2053; 2104; 2248; 2365; 2546; 2607; 2610; 2740; 3259; 3281; 3295; 3733; 3872; 3924; 3935; 4025; 4030; 4067; 4108; 4195; 4198; 4201; 4437; 4533; 4574; 4588; 4702; 5041; 5056; 5267; 5473; 5476; 5541; 5684; 5839
FokI	GGATGNNNNNNNN!	5	1480; 3830; 4287; 4312; 4766
FokI	!NNNNNNNNNNNNNCATCC	5	1975; 2063; 2120; 2275; 3636
FriOI	GRGCY!C	7	873; 1017; 1542; 1768; 3154; 4328; 5038
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4065
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 1482; 2583; 2618; 2812; 3230; 3786; 4801; 5135; 5388
FspEI	CCNNNNNNNNNNNN!	202	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 634; 648; 663; 689; 703; 754; 769; 820; 842; 885; 901; 931; 962; 986; 1008; 1029; 1045; 1082; 1123; 1148; 1196; 1213; 1227; 1242; 1262; 1303; 1342; 1372; 1391; 1423; 1463; 1489; 1508; 1539; 1554; 1570; 1597; 1660; 1685; 1760; 1780; 1796; 1813; 1855; 1873; 1882; 1891; 1905; 1975; 2005; 2022; 2036; 2069; 2083; 2101; 2125; 2140; 2170; 2203; 2230; 2245; 2264; 2300; 2347; 2366; 2381; 2395; 2426; 2449; 2469; 2490; 2536; 2578; 2594; 2623; 2646; 2685; 2699; 2840; 2935; 2959; 2982; 3005; 3023; 3045; 3066; 3085; 3104; 3133; 3154; 3168; 3194; 3282; 3308; 3357; 3398; 3416; 3455; 3471; 3509; 3566; 3581; 3638; 3658; 3672; 3689; 3703; 3740; 3755; 3798; 3881; 3948; 3979; 3999; 4014; 4059; 4073; 4139; 4153; 4172; 4188; 4229; 4249; 4296; 4346; 4362; 4382; 4407; 4427; 4450; 4477; 4495; 4521; 4561; 4587; 4611; 4667; 4681; 4709; 4752; 4773; 4808; 4852; 4940; 4964; 4986; 5006; 5022; 5043; 5057; 5076; 5160; 5180; 5208; 5223; 5257; 5299; 5326; 5341; 5386; 5410; 5424; 5446; 5472; 5492; 5516; 5542; 5590; 5609; 5628; 5654; 5689; 5734; 5764; 5778; 5829; 5843; 5868; 5884; 5905; 5934

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	!NNNNNNNNNNNNNNNGG	162	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 611; 653; 689; 722; 758; 776; 834; 876; 996; 1031; 1072; 1105; 1151; 1172; 1194; 1260; 1283; 1325; 1380; 1400; 1436; 1485; 1565; 1601; 1622; 1658; 1681; 1709; 1742; 1763; 1794; 1814; 1832; 1857; 1866; 1880; 1910; 1937; 1979; 2000; 2024; 2066; 2085; 2114; 2150; 2187; 2210; 2229; 2259; 2280; 2307; 2346; 2372; 2391; 2463; 2489; 2537; 2576; 2634; 2734; 2803; 2833; 2911; 2960; 2982; 3010; 3046; 3091; 3120; 3156; 3175; 3203; 3223; 3286; 3309; 3417; 3449; 3467; 3496; 3539; 3568; 3679; 3708; 3751; 3772; 3800; 3833; 3853; 3878; 3905; 3930; 3952; 3980; 4006; 4027; 4078; 4099; 4117; 4165; 4201; 4257; 4282; 4306; 4335; 4358; 4382; 4408; 4430; 4449; 4474; 4514; 4550; 4615; 4700; 4724; 4753; 4787; 4808; 4828; 4873; 4900; 4919; 4952; 5004; 5035; 5062; 5114; 5212; 5283; 5328; 5389; 5454; 5488; 5514; 5532; 5568; 5638; 5661; 5683; 5707; 5740; 5788; 5823; 5841; 5898
Fsp4HI	GC!NGC	41	630; 653; 665; 841; 1180; 1457; 2053; 2104; 2248; 2365; 2546; 2607; 2610; 2740; 3259; 3281; 3295; 3733; 3872; 3924; 3935; 4025; 4030; 4067; 4108; 4195; 4198; 4201; 4437; 4533; 4574; 4588; 4702; 5041; 5056; 5267; 5473; 5476; 5541; 5684; 5839
GdiII	C!GGCCR	2	2607; 3869
GdiII	Y!GGCCG	4	2607; 3869; 4434; 4461
GlaI	GC!GC	26	596; 619; 640; 688; 1641; 1885; 3228; 3236; 3262; 3284; 3293; 3306; 3337; 3956; 3964; 4028; 4065; 4331; 4591; 4767; 4853; 5256; 5365; 5539; 5639; 5706
Glul	GC!NGC	41	630; 653; 665; 841; 1180; 1457; 2053; 2104; 2248; 2365; 2546; 2607; 2610; 2740; 3259; 3281; 3295; 3733; 3872; 3924; 3935; 4025; 4030; 4067; 4108; 4195; 4198; 4201; 4437; 4533; 4574; 4588; 4702; 5041; 5056; 5267; 5473; 5476; 5541; 5684; 5839
GsaI	CCCAG!C	5	695; 1221; 3510; 3582; 5581
GsaI	GCTGG!G	2	2329; 4471
GsuI	CTGGAGNNNNNNNNNNNNNN!	2	1472; 4803
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	2222; 4746
HaeI	WGG!CCW	12	675; 740; 1139; 1301; 1583; 2333; 2564; 3784; 4045; 5407; 5859; 5870
HaeII	RGCGC!Y	9	598; 621; 642; 690; 1643; 3230; 3238; 3966; 5641
HaeIII	GG!CC	37	84; 277; 632; 675; 740; 1015; 1139; 1213; 1301; 1583; 1766; 2055; 2298; 2333; 2367; 2390; 2412; 2522; 2564; 2609; 2929; 3071; 3726; 3732; 3741; 3784; 3871; 4045; 4436; 4463; 4972; 5029; 5062; 5407; 5841; 5859; 5870
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2638; 4159
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2604; 4125
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2637; 4158
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2606; 4127
HapII	C!CGG	24	601; 635; 643; 1863; 1872; 1881; 1895; 2478; 3181; 3868; 3945; 3967; 3995; 4126; 4216; 4283; 4464; 4739; 4747; 4839; 5313; 5503; 5529; 5676
HgaI	GACGCNNNNN!	4	526; 1133; 4673; 4752
HgaI	!NNNNNNNNNNNGCGTC	5	635; 2470; 3296; 5191; 5769
HhaI	GCG!C	26	597; 620; 641; 689; 1642; 1886; 3229; 3237; 3263; 3285; 3294; 3307; 3338; 3957; 3965; 4029; 4066; 4332; 4592; 4768; 4854; 5257; 5366; 5540; 5640; 5707
HinI	GR!CGYC	10	122; 175; 258; 444; 639; 646; 2481; 3963; 4665; 4744
HinIII	CATG!	30	304; 364; 628; 785; 958; 1099; 1336; 1519; 1741; 1909; 1936; 1942; 1954; 2032; 2098; 2178; 2389; 3393; 3533; 3605; 3696; 3837; 4182; 4368; 4399; 4425; 4781; 5165; 5885; 5936
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2637; 4158
Hin4I	!NNNNNNNNGABNNNNNRTC	3	2605; 4126; 4156
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	2637; 4158; 4188
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	2605; 4126
Hin6I	G!CGC	26	595; 618; 639; 687; 1640; 1884; 3227; 3235; 3261; 3283; 3292; 3305; 3336; 3955; 3963; 4027; 4064; 4330; 4590; 4766; 4852; 5255; 5364; 5538; 5638; 5705
HinP1I	G!CGC	26	595; 618; 639; 687; 1640; 1884; 3227; 3235; 3261; 3283; 3292; 3305; 3336; 3955; 3963; 4027; 4064; 4330; 4590; 4766; 4852; 5255; 5364; 5538; 5638; 5705
HincII	GTY!RAC	1	2726
HindII	GTY!RAC	1	2726
HindIII	A!AGCTT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HinfI	G!ANTC	20	410; 604; 1028; 1446; 1519; 1822; 2034; 2184; 2511; 2614; 3006; 3028; 3438; 4448; 4582; 4634; 4692; 4729; 5511; 5907
HpaI	GTT!AAC	1	2726
HpaII	C!CGG	24	601; 635; 643; 1863; 1872; 1881; 1895; 2478; 3181; 3868; 3945; 3967; 3995; 4126; 4216; 4283; 4464; 4739; 4747; 4839; 5313; 5503; 5529; 5676
HphI	GGTGANNNNNNN!	9	376; 718; 863; 1289; 1429; 1921; 2290; 5034; 5150
HphI	!NNNNNNNTCACC	7	877; 907; 1218; 1318; 2179; 3080; 4141
Hpy8I	GTN!NAC	15	201; 539; 577; 1093; 1721; 1966; 1986; 2281; 2485; 2494; 2726; 3010; 3027; 3082; 5569
Hpy99I	CGWCG!	8	2543; 4053; 4081; 4375; 4390; 4667; 5052; 5785
Hpy166II	GTN!NAC	15	201; 539; 577; 1093; 1721; 1966; 1986; 2281; 2485; 2494; 2726; 3010; 3027; 3082; 5569
Hpy188I	TCN!GA	19	585; 609; 762; 868; 979; 1839; 1849; 1993; 2273; 3137; 3746; 3930; 4274; 4627; 4728; 5207; 5341; 5694; 5772
Hpy188III	TC!NNGA	26	613; 796; 829; 1526; 2266; 2470; 2618; 3390; 3442; 3755; 3808; 3981; 4297; 4306; 4389; 4445; 4489; 4579; 4612; 4681; 5162; 5236; 5319; 5417; 5515; 5649
HpyAV	CCTTCNNNNNN!	8	928; 1206; 2074; 2122; 2167; 4608; 4715; 5394
HpyAV	!NNNNNGAAGG	12	890; 1333; 1420; 1994; 2366; 3196; 4091; 4820; 4836; 5019; 5336; 5646
HpyCH4III	ACN!GT	20	76; 198; 269; 543; 581; 699; 944; 1024; 1354; 1613; 1730; 1963; 3054; 4343; 4459; 4567; 4890; 5381; 5851; 5922
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 937; 1544; 2262; 2538; 3023; 3035; 3078; 3188; 4079; 4266; 5047; 5180
HpyCH4V	TG!CA	27	680; 821; 1315; 1459; 1498; 1608; 1666; 1936; 1986; 2308; 2424; 2712; 2739; 2807; 3524; 3533; 3596; 3605; 3720; 3796; 3855; 4014; 4189; 4203; 5273; 5569; 5936
HpyF3I	C!TNAG	10	606; 789; 867; 2460; 3443; 3745; 4626; 5075; 5198; 5607
HpyF10VI	GCNNNNN!NNGC	38	90; 212; 244; 283; 376; 400; 626; 638; 652; 677; 1161; 1307; 1580; 1863; 1872; 1881; 1942; 2373; 2387; 3190; 3220; 3247; 3289; 3530; 3602; 3653; 3732; 3954; 4038; 4061; 4200; 4323; 4406; 4673; 4860; 5064; 5263; 5835
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 639; 646; 2481; 3963; 4665; 4744
Hsp92II	CATG!	30	304; 364; 628; 785; 958; 1099; 1336; 1519; 1741; 1909; 1936; 1942; 1954; 2032; 2098; 2178; 2389; 3393; 3533; 3605; 3696; 3837; 4182; 4368; 4399; 4425; 4781; 5165; 5885; 5936
HspAI	G!CGC	26	595; 618; 639; 687; 1640; 1884; 3227; 3235; 3261; 3283; 3292; 3305; 3336; 3955; 3963; 4027; 4064; 4330; 4590; 4766; 4852; 5255; 5364; 5538; 5638; 5705
KasI	G!GCGCC	2	638; 3962
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	2726
Kzo9I	!GATC	25	585; 609; 1189; 1743; 1888; 2268; 2418; 2444; 2620; 3800; 3804; 3823; 4134; 4212; 4293; 4302; 4380; 4756; 4772; 5131; 5143; 5221; 5229; 5240; 5315
LguI	GCTCTTCN!	1	1581
LguI	!NNNNGAAGAGC	2	4307; 4517
LpnI	RG!GCGY	9	596; 619; 640; 688; 1641; 3228; 3236; 3964; 5639
LpnPI	CCDGNNNNNNNNN!	85	102; 295; 614; 648; 671; 705; 754; 821; 842; 962; 986; 1015; 1148; 1231; 1264; 1303; 1372; 1424; 1463; 1499; 1539; 1580; 1597; 1685; 1781; 1876; 1885; 1894; 1908; 2036; 2093; 2141; 2237; 2252; 2313; 2360; 2381; 2405; 2429; 2491; 2578; 2700; 3005; 3194; 3417; 3455; 3471; 3511; 3566; 3583; 3683; 3768; 3881; 3958; 3980; 4003; 4139; 4153; 4172; 4229; 4296; 4346; 4362; 4419; 4477; 4686; 4752; 4776; 4852; 4941; 5044; 5077; 5308; 5326; 5472; 5492; 5516; 5542; 5591; 5689; 5734; 5764; 5843; 5868; 5905

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	!NNNNNNNNNNNNNNCHGG	72	75; 268; 552; 586; 620; 653; 762; 1072; 1105; 1172; 1194; 1260; 1283; 1436; 1565; 1658; 1681; 1709; 1754; 1798; 1848; 1857; 1866; 2066; 2114; 2210; 2311; 2354; 2463; 2489; 2576; 3046; 3166; 3223; 3286; 3484; 3496; 3556; 3568; 3800; 3845; 3888; 3930; 3952; 3980; 4027; 4089; 4111; 4201; 4268; 4291; 4335; 4430; 4449; 4474; 4623; 4724; 4767; 4824; 4914; 5017; 5044; 5062; 5298; 5335; 5488; 5514; 5654; 5672; 5707; 5788; 5841
Lsp1109I	GCAGC>NNNNNNNN!	9	852; 2115; 2557; 2751; 4036; 4078; 4599; 5052; 5552
Lsp1109I	!NNNNNNNNNNNNNGCTGC	10	639; 1166; 1443; 2234; 3245; 3910; 4094; 4187; 5253; 5459
LweI	GCATC>NNNNN!	7	2142; 2779; 3542; 3614; 4262; 4326; 4601
LweI	!NNNNNNNNNGATGC	8	357; 1519; 2295; 2463; 3921; 4176; 4392; 5784
MabI	A!CCWGGT	1	3552
MaeI	C!TAG	10	592; 1482; 2583; 2618; 2812; 3230; 3786; 4801; 5135; 5388
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 937; 1544; 2262; 2538; 3023; 3035; 3078; 3188; 4079; 4266; 5047; 5180
MaeIII	!GTNAC	23	61; 148; 497; 938; 1105; 1270; 1277; 1354; 1382; 1417; 1691; 1730; 1823; 2185; 2751; 3252; 3264; 4083; 4389; 5079; 5345; 5461; 5524
MalI	GA!TC	25	587; 611; 1191; 1745; 1890; 2270; 2420; 2446; 2622; 3802; 3806; 3825; 4136; 4214; 4295; 4304; 4382; 4758; 4774; 5133; 5145; 5223; 5231; 5242; 5317
MaqI	CRTTGAC>NNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3387; 4576
MbiI	GAG!CGG	3	2606; 3223; 4630
MboI	!GATC	25	585; 609; 1189; 1743; 1888; 2268; 2418; 2444; 2620; 3800; 3804; 3823; 4134; 4212; 4293; 4302; 4380; 4756; 4772; 5131; 5143; 5221; 5229; 5240; 5315
MboII	GAAGANNNNNNNN!	15	844; 1111; 1181; 1348; 1724; 1828; 2210; 2323; 2443; 2511; 3219; 3447; 4324; 4534; 5153
MboII	!NNNNNNNTCTTC	7	1514; 1568; 1648; 4614; 4781; 4981; 5224
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2713
MflI	R!GATCY	11	585; 609; 1888; 2444; 4134; 4380; 4772; 5131; 5143; 5229; 5240
MhlI	GDGCH!C	20	873; 1017; 1119; 1242; 1411; 1542; 1623; 1768; 1961; 1988; 2021; 2598; 3154; 3909; 4002; 4076; 4266; 4328; 5038; 5571
MisI	TGG!CCA	3	740; 2564; 4045
MluI	A!CGCGT	0	
MluNI	TGG!CCA	3	740; 2564; 4045
MlyI	GAGTC>NNNNN!	5	1455; 1831; 2193; 3015; 3447
MlyI	!NNNNNGACTC	7	404; 598; 1513; 2608; 3022; 4628; 5505
Mly113I	GG!CGCC	2	639; 3963
MmeI	TCCRAC>NNNNNNNNNNNNNNNNNNNN!	3	1581; 2316; 3056
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	5488; 5672
MnII	CCTC>NNNNNNN!	22	763; 826; 887; 1234; 1312; 1564; 1658; 1793; 1814; 2067; 2246; 2261; 2344; 2477; 2588; 2682; 3746; 4564; 4770; 5084; 5454; 5778
MnII	!NNNNNGAGG	26	541; 697; 766; 1609; 1812; 1948; 1987; 2008; 2041; 2158; 2267; 2323; 2512; 2545; 2642; 3107; 3438; 3716; 3759; 3774; 3814; 3878; 4014; 4371; 4801; 5704
Mph1103I	ATGCA!T	3	3535; 3607; 5938
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	3180; 4463; 4746
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	3	740; 2564; 4045
MseI	T!TAA	17	7; 1923; 2148; 2664; 2725; 2846; 2867; 2878; 2890; 2901; 2918; 3016; 3287; 5106; 5120; 5125; 5177
MsiI	CAYNN!NNRTG	9	365; 1069; 1331; 1352; 1603; 1754; 1907; 1937; 4400
MspI	C!CGG	24	601; 635; 643; 1863; 1872; 1881; 1895; 2478; 3181; 3868; 3945; 3967; 3995; 4126; 4216; 4283; 4464; 4739; 4747; 4839; 5313; 5503; 5529; 5676
Msp20I	TGG!CCA	3	740; 2564; 4045
MspA1I	CMG!CKG	6	652; 2357; 3461; 4069; 5298; 5543
MspCI	C!TTAAG	1	2845

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	307	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; 627; 646; 670; 684; 703; 736; 753; 773; 789; 808; 824; 841; 858; 879; 892; 920; 934; 948; 961; 976; 990; 1007; 1020; 1045; 1062; 1077; 1099; 1132; 1147; 1160; 1177; 1195; 1213; 1229; 1247; 1262; 1287; 1302; 1331; 1345; 1360; 1390; 1413; 1435; 1450; 1463; 1494; 1507; 1528; 1546; 1569; 1592; 1609; 1634; 1648; 1661; 1675; 1693; 1708; 1736; 1750; 1774; 1790; 1805; 1825; 1838; 1858; 1875; 1884; 1893; 1907; 1927; 1945; 1963; 1993; 2011; 2026; 2041; 2059; 2092; 2107; 2135; 2150; 2174; 2187; 2203; 2221; 2235; 2251; 2264; 2278; 2299; 2312; 2333; 2352; 2366; 2380; 2394; 2411; 2428; 2449; 2468; 2482; 2509; 2527; 2547; 2561; 2577; 2594; 2609; 2623; 2636; 2651; 2670; 2687; 2700; 2741; 2755; 2768; 2786; 2824; 2839; 2857; 2898; 2922; 2942; 2960; 2981; 3004; 3036; 3051; 3073; 3091; 3104; 3125; 3142; 3155; 3168; 3184; 3197; 3227; 3242; 3267; 3285; 3298; 3313; 3337; 3351; 3375; 3400; 3416; 3454; 3470; 3509; 3523; 3537; 3565; 3581; 3595; 3609; 3638; 3651; 3672; 3681; 3703; 3733; 3749; 3767; 3797; 3820; 3844; 3868; 3887; 3915; 3941; 3957; 3970; 3993; 4007; 4027; 4040; 4054; 4073; 4087; 4100; 4116; 4131; 4144; 4160; 4175; 4191; 4216; 4235; 4251; 4264; 4277; 4295; 4309; 4323; 4339; 4361; 4377; 4396; 4418; 4434; 4457; 4476; 4490; 4506; 4520; 4540; 4556; 4569; 4591; 4624; 4638; 4658; 4671; 4685; 4739; 4752; 4775; 4788; 4807; 4824; 4851; 4887; 4920; 4939; 4964; 4985; 5012; 5025; 5042; 5056; 5071; 5087; 5147; 5172; 5188; 5210; 5223; 5237; 5268; 5282; 5307; 5325; 5340; 5353; 5372; 5385; 5400; 5429; 5448; 5466; 5491; 5506; 5525; 5541; 5560; 5578; 5594; 5608; 5627; 5654; 5677; 5699; 5718; 5733; 5746; 5763; 5783; 5810; 5823; 5842; 5867; 5890; 5904; 5917; 5934
MspJI	!NNNNNNNNNNNNYNG	252	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 593; 611; 628; 654; 678; 715; 735; 756; 776; 794; 815; 832; 852; 876; 922; 941; 959; 988; 1010; 1031; 1059; 1082; 1100; 1121; 1147; 1173; 1195; 1221; 1241; 1261; 1280; 1319; 1340; 1366; 1387; 1409; 1436; 1468; 1485; 1502; 1529; 1553; 1570; 1589; 1614; 1645; 1666; 1686; 1704; 1724; 1742; 1759; 1795; 1812; 1832; 1849; 1858; 1867; 1892; 1910; 1937; 1967; 1991; 2009; 2033; 2052; 2074; 2114; 2135; 2161; 2181; 2210; 2252; 2286; 2307; 2327; 2354; 2372; 2389; 2407; 2435; 2456; 2475; 2501; 2523; 2546; 2569; 2589; 2615; 2644; 2673; 2715; 2798; 2833; 2860; 2883; 2912; 2956; 2978; 3010; 3046; 3063; 3084; 3121; 3141; 3158; 3175; 3210; 3228; 3246; 3263; 3287; 3309; 3336; 3364; 3390; 3428; 3449; 3466; 3484; 3507; 3528; 3556; 3579; 3600; 3618; 3639; 3656; 3679; 3703; 3723; 3741; 3763; 3794; 3816; 3842; 3861; 3878; 3906; 3925; 3944; 3962; 3980; 4001; 4023; 4047; 4080; 4100; 4118; 4139; 4165; 4192; 4209; 4226; 4243; 4269; 4291; 4313; 4331; 4351; 4370; 4392; 4430; 4450; 4474; 4494; 4514; 4541; 4565; 4598; 4617; 4645; 4667; 4696; 4724; 4749; 4768; 4787; 4808; 4825; 4842; 4873; 4900; 4920; 4943; 4963; 5000; 5017; 5036; 5062; 5082; 5121; 5148; 5167; 5185; 5222; 5240; 5281; 5299; 5325; 5342; 5374; 5403; 5431; 5452; 5475; 5494; 5515; 5533; 5550; 5568; 5594; 5615; 5635; 5655; 5673; 5694; 5720; 5737; 5756; 5775; 5804; 5823; 5841; 5860; 5878; 5896; 5919
MspR9I	CC!NGG	28	90; 283; 635; 636; 643; 1136; 1451; 1673; 1769; 2081; 2129; 2225; 2240; 2369; 2478; 3499; 3554; 3571; 3967; 4127; 4350; 4740; 4929; 5032; 5504; 5722; 5735; 5856
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	2713
MvaI	CC!WGG	20	90; 283; 1136; 1451; 1673; 1769; 2081; 2129; 2225; 2240; 2369; 3499; 3554; 3571; 4350; 4929; 5032; 5722; 5735; 5856
Mva1269I	GAATGCN!	3	865; 1477; 2714
Mva1269I	G!CATTC	2	1364; 2807
MvnI	CG!CG	17	60; 1829; 1886; 2612; 2887; 3263; 3283; 3307; 3338; 4029; 4330; 4768; 4852; 4915; 4984; 5257; 5838
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	38	90; 212; 244; 283; 376; 400; 626; 638; 652; 677; 1161; 1307; 1580; 1863; 1872; 1881; 1942; 2373; 2387; 3190; 3220; 3247; 3289; 3530; 3602; 3653; 3732; 3954; 4038; 4061; 4200; 4323; 4406; 4673; 4860; 5064; 5263; 5835
NaeI	GCC!GGC	3	3182; 4465; 4748

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NarI	GG!CGCC	2	639; 3963
NciI	CC!SGG	8	635; 636; 643; 2478; 3967; 4127; 4740; 5504
NcoI	C!CATGG	5	360; 624; 1905; 3692; 4395
NdeI	CA!TATG	1	234
NdeII	!GATC	25	585; 609; 1189; 1743; 1888; 2268; 2418; 2444; 2620; 3800; 3804; 3823; 4134; 4212; 4293; 4302; 4380; 4756; 4772; 5131; 5143; 5221; 5229; 5240; 5315
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	2025
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	2061
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	3180; 4463; 4746
NheI	G!CTAGC	1	591
NlaIII	CATG!	30	304; 364; 628; 785; 958; 1099; 1336; 1519; 1741; 1909; 1936; 1942; 1954; 2032; 2098; 2178; 2389; 3393; 3533; 3605; 3696; 3837; 4182; 4368; 4399; 4425; 4781; 5165; 5885; 5936
NlaIV	GGN!NCC	27	467; 633; 640; 1015; 1288; 1408; 1766; 1858; 1867; 1876; 1890; 1960; 2020; 2411; 3118; 3139; 3151; 3342; 3503; 3575; 3964; 3999; 4847; 4926; 4971; 5814; 5853
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	1348; 2795; 3110; 4702
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 2285; 5774
Nli3877I	CYCGR!G	3	617; 638; 2166
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1173; 3752; 4188
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	2301; 3717
NmeDI	RCCGGYNNNNNNNN!	8	1874; 1883; 1892; 1906; 3192; 4294; 4475; 4758
NmeDI	!NNNNNNNNNNNNRCCGGY	7	1849; 1858; 1867; 3167; 4269; 4450; 4733
NmuCI	!GTSAC	12	1105; 1270; 1277; 1354; 1382; 1417; 1691; 1823; 2185; 3252; 4083; 4389
NotI	GC!GGCCGC	1	2607
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4065
NsiI	ATGCA!T	3	3535; 3607; 5938
NspI	RCATG!Y	8	785; 958; 1741; 1936; 3533; 3605; 4368; 5885
NspV	TT!CGAA	1	4645
OliI	CACNN!NNGTG	2	1352; 1907
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 1266; 1723; 1950; 2100; 2352; 4270
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3533; 3605; 4368
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	3389; 5161
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	2128; 4928; 5031
PauI	G!CGCGC	0	
PceI	AGG!CCT	4	675; 1139; 2333; 3784
PciI	A!CATGT	3	781; 954; 5881
PciSI	GCTCTTCN!	1	1581
PciSI	!NNNNGAAGAGC	2	4307; 4517
PcsI	WCGNNNN!NNNCGW	7	2547; 4257; 4334; 4577; 4651; 5044; 5562
PctI	GAATGCN!	3	865; 1477; 2714
PctI	G!CATTC	2	1364; 2807
PdiI	GCC!GGC	3	3182; 4465; 4748
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	8	1028; 2034; 2511; 4448; 4582; 4692; 4729; 5907
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	4081
PfIMI	CCANNNN!NTGG	1	1208
PfoI	T!CCNGGA	3	1449; 2238; 4738
PhoI	GG!CC	37	84; 277; 632; 675; 740; 1015; 1139; 1213; 1301; 1583; 1766; 2055; 2298; 2333; 2367; 2390; 2412; 2522; 2564; 2609; 2929; 3071; 3726; 3732; 3741; 3784; 3871; 4045; 4436; 4463; 4972; 5029; 5062; 5407; 5841; 5859; 5870
PinAI	A!CCGGT	1	1894
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	2	1110; 4344
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	3	1507; 3909; 4164
PleI	GAGTCNNNN!	5	1454; 1830; 2192; 3014; 3446

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PleI	!NNNNNGACTC	7	404; 598; 1513; 2608; 3022; 4628; 5505
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	3045
PpiI	!NNNNNNNGAGNNNNNGTTC	2	1529; 5175
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	2	1561; 5207
PpiI	!NNNNNNNGAACNNNNNCTC	1	3013
PpsI	GAGTCNNNN!	5	1454; 1830; 2192; 3014; 3446
Ppsi	!NNNNNGACTC	7	404; 598; 1513; 2608; 3022; 4628; 5505
Ppu10I	A!TGCAT	3	3531; 3603; 5934
Ppu21I	YAC!GTR	3	340; 3079; 4267
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	3	781; 954; 5881
PshAI	GACNN!NNGTC	1	2537
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2746; 2951
Psp03I	GGWC!C	3	1783; 4482; 4927
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	20	88; 281; 1134; 1449; 1671; 1767; 2079; 2127; 2223; 2238; 2367; 3497; 3552; 3569; 4348; 4927; 5030; 5720; 5733; 5854
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	1	1417
PspGI	!CCWGG	20	88; 281; 1134; 1449; 1671; 1767; 2079; 2127; 2223; 2238; 2367; 3497; 3552; 3569; 4348; 4927; 5030; 5720; 5733; 5854
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	27	467; 633; 640; 1015; 1288; 1408; 1766; 1858; 1867; 1876; 1890; 1960; 2020; 2411; 3118; 3139; 3151; 3342; 3503; 3575; 3964; 3999; 4847; 4926; 4971; 5814; 5853
PspOMI	G!GGCCC	2	1013; 1764
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	3	125; 3693; 4692
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	4095
PspPI	G!GNCC	17	83; 276; 631; 1014; 1211; 1765; 1780; 2054; 2297; 2389; 2410; 3070; 4479; 4924; 4970; 5028; 5061
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	5	710; 1269; 3516; 3588; 5094
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	2577; 3429; 4624
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNTAC	0	
PssI	RGGNC!CY	3	1016; 1767; 5064
PstI	CTGCA!G	2	823; 1461
PstNI	CAGNNN!CTG	4	818; 2571; 5064; 5472
PsuI	R!GATCY	11	585; 609; 1888; 2444; 4134; 4380; 4772; 5131; 5143; 5229; 5240
PsyI	GACN!NNGTC	1	4081
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	3461; 4069
RcaI	T!CATGA	2	3389; 5161
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4478
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	3	1200; 1258; 2692
RleAI	!NNNNNNNNNTGTGGG	1	1746
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 1265; 1722; 1949; 2099; 2351; 4269
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 1264; 1721; 1948; 2098; 2350; 4268
RseI	CAYNN!NNRTG	9	365; 1069; 1331; 1352; 1603; 1754; 1907; 1937; 4400
RsrII	CG!GWCCG	1	4479
Rsr2I	CG!GWCCG	1	4479
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	1	1581
SapI	!NNNNGAAGAGC	2	4307; 4517
SaqAI	T!TAA	17	7; 1923; 2148; 2664; 2725; 2846; 2867; 2878; 2890; 2901; 2918; 3016; 3287; 5106; 5120; 5125; 5177
SatI	GC!NGC	41	630; 653; 665; 841; 1180; 1457; 2053; 2104; 2248; 2365; 2546; 2607; 2610; 2740; 3259; 3281; 3295; 3733; 3872; 3924; 3935; 4025; 4030; 4067; 4108; 4195; 4198; 4201; 4437; 4533; 4574; 4588; 4702; 5041; 5056; 5267; 5473; 5476; 5541; 5684; 5839
Sau96I	G!GNCC	17	83; 276; 631; 1014; 1211; 1765; 1780; 2054; 2297; 2389; 2410; 3070; 4479; 4924; 4970; 5028; 5061
Sau3AI	!GATC	25	585; 609; 1189; 1743; 1888; 2268; 2418; 2444; 2620; 3800; 3804; 3823; 4134; 4212; 4293; 4302; 4380; 4756; 4772; 5131; 5143; 5221; 5229; 5240; 5315
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	5	1455; 1831; 2193; 3015; 3447
SchI	!NNNNNGACTC	7	404; 598; 1513; 2608; 3022; 4628; 5505
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	28	90; 283; 635; 636; 643; 1136; 1451; 1673; 1769; 2081; 2129; 2225; 2240; 2369; 2478; 3499; 3554; 3571; 3967; 4127; 4350; 4740; 4929; 5032; 5504; 5722; 5735; 5856
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNN!	7	848; 2335; 2523; 3541; 3613; 3782; 5724
SdeAI	!NNNNNNNNNNNNNNNNNNNNNNNNCTYCTG	4	636; 844; 4118; 4603
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	20	873; 1017; 1119; 1242; 1411; 1542; 1623; 1768; 1961; 1988; 2021; 2598; 3154; 3909; 4002; 4076; 4266; 4328; 5038; 5571
SelI	!CGCG	17	58; 1827; 1884; 2610; 2885; 3261; 3281; 3305; 3336; 4027; 4328; 4766; 4850; 4913; 4982; 5255; 5836
SetI	ASST!	82	125; 137; 178; 261; 308; 342; 447; 552; 568; 708; 746; 770; 795; 845; 890; 920; 940; 975; 1007; 1146; 1198; 1292; 1331; 1431; 1458; 1547; 1556; 1576; 1700; 1806; 1920; 1947; 2093; 2114; 2265; 2400; 2418; 2469; 2537; 2541; 2556; 2580; 2653; 2674; 2683; 2695; 2744; 2911; 3026; 3038; 3081; 3118; 3168; 3191; 3315; 3463; 3558; 3751; 3864; 3992; 4071; 4082; 4154; 4225; 4269; 4529; 4675; 4719; 5050; 5081; 5140; 5183; 5326; 5347; 5446; 5583; 5598; 5617; 5629; 5673; 5719; 5770
SexAI	A!CCWGGT	1	3552
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	2142; 2779; 3542; 3614; 4262; 4326; 4601
SfaNI	!NNNNNNNNNGATGC	8	357; 1519; 2295; 2463; 3921; 4176; 4392; 5784
Sfcl	C!TRYAG	5	819; 1457; 3298; 5425; 5616
SfiI	GGCCNNNN!NGGCC	1	3738
SfoI	GGC!GCC	2	640; 3964
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	4645

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	240	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 646; 670; 684; 704; 741; 789; 808; 824; 841; 858; 890; 948; 961; 985; 1014; 1028; 1057; 1099; 1132; 1147; 1161; 1177; 1199; 1221; 1247; 1263; 1287; 1302; 1345; 1360; 1392; 1413; 1435; 1450; 1463; 1494; 1507; 1528; 1555; 1579; 1592; 1615; 1648; 1675; 1693; 1708; 1736; 1750; 1774; 1790; 1825; 1838; 1858; 1875; 1884; 1893; 1907; 1927; 1945; 1963; 1993; 2017; 2035; 2050; 2092; 2107; 2140; 2174; 2187; 2215; 2236; 2251; 2278; 2312; 2333; 2353; 2366; 2380; 2398; 2411; 2428; 2461; 2482; 2516; 2554; 2577; 2595; 2623; 2670; 2699; 2741; 2824; 2898; 2982; 3004; 3036; 3073; 3091; 3110; 3125; 3167; 3184; 3201; 3236; 3250; 3267; 3289; 3313; 3337; 3402; 3416; 3454; 3470; 3510; 3523; 3542; 3565; 3582; 3595; 3614; 3644; 3665; 3682; 3705; 3740; 3767; 3798; 3820; 3846; 3868; 3887; 3915; 3951; 3970; 3993; 4007; 4027; 4040; 4054; 4073; 4087; 4106; 4138; 4152; 4165; 4191; 4222; 4235; 4252; 4269; 4283; 4300; 4318; 4333; 4361; 4377; 4396; 4418; 4434; 4457; 4476; 4501; 4520; 4540; 4567; 4591; 4624; 4643; 4671; 4685; 4751; 4775; 4790; 4813; 4834; 4851; 4899; 4926; 4940; 4969; 4993; 5026; 5043; 5063; 5076; 5089; 5147; 5174; 5193; 5223; 5248; 5268; 5282; 5307; 5325; 5362; 5400; 5429; 5457; 5471; 5491; 5506; 5527; 5541; 5560; 5578; 5594; 5634; 5654; 5681; 5699; 5720; 5733; 5746; 5763; 5787; 5810; 5842; 5867; 5894; 5916
SgeI	!NNNNNNNNNNNNCNG	208	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 620; 644; 663; 689; 715; 763; 782; 815; 832; 864; 922; 941; 959; 988; 1031; 1073; 1106; 1130; 1151; 1173; 1195; 1221; 1247; 1276; 1319; 1345; 1366; 1387; 1409; 1436; 1468; 1485; 1502; 1529; 1553; 1570; 1589; 1622; 1649; 1667; 1710; 1748; 1799; 1816; 1849; 1858; 1867; 1892; 1919; 1937; 1967; 1991; 2009; 2033; 2066; 2114; 2148; 2189; 2210; 2252; 2286; 2307; 2327; 2354; 2372; 2393; 2414; 2435; 2456; 2490; 2528; 2551; 2569; 2597; 2644; 2673; 2715; 2798; 2827; 2956; 2978; 3010; 3047; 3065; 3084; 3141; 3158; 3175; 3210; 3228; 3248; 3268; 3287; 3311; 3376; 3428; 3484; 3516; 3539; 3556; 3588; 3618; 3639; 3656; 3679; 3714; 3741; 3772; 3794; 3820; 3842; 3861; 3889; 3925; 3944; 3967; 3988; 4006; 4023; 4047; 4080; 4112; 4139; 4165; 4196; 4226; 4243; 4269; 4292; 4313; 4335; 4355; 4375; 4392; 4431; 4450; 4475; 4494; 4514; 4541; 4565; 4598; 4617; 4645; 4667; 4725; 4749; 4768; 4787; 4808; 4825; 4873; 4900; 4920; 4943; 4967; 5000; 5017; 5037; 5063; 5121; 5148; 5167; 5197; 5222; 5242; 5281; 5299; 5336; 5374; 5403; 5431; 5452; 5480; 5501; 5534; 5552; 5608; 5628; 5655; 5673; 5694; 5720; 5737; 5761; 5784; 5816; 5841; 5868; 5890; 5919
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	1880
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	6	27; 1090; 1704; 3110; 4897; 5690
SimI	!GACCC	7	106; 804; 1419; 2343; 4391; 4959; 5207
SinI	G!GWCC	3	1780; 4479; 4924
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	1	636
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	9	365; 1069; 1331; 1352; 1603; 1754; 1907; 1937; 4400
SmlI	C!TYRAG	7	613; 2468; 2845; 4354; 5236; 5513; 5775
SmoI	C!TYRAG	7	613; 2468; 2845; 4354; 5236; 5513; 5775
SmuI	CCCGCNNNN!	10	93; 119; 286; 2362; 2464; 3285; 3640; 3661; 4857; 4989
SmuI	!NNNNNNGCGGG	8	1754; 1822; 2399; 3216; 4086; 4623; 4761; 4908
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3533; 3605; 4368
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	18; 986; 1850; 2713; 2777; 2855; 2881; 2892; 3539; 3611; 3703; 5121
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	4	675; 1139; 2333; 3784

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 650; 2217; 2355; 2457; 2610; 3278; 3281; 3295; 3385; 3633; 3645; 3654; 3666; 3676; 3687; 3733; 3872; 3935; 4437; 4482; 4548; 4574; 4699; 4702; 4850; 4982; 5289; 5433; 5929
SsiI	G!CGG	33	370; 403; 528; 629; 1404; 1761; 1829; 1886; 2042; 2052; 2364; 2406; 2606; 3223; 3250; 3338; 3448; 4029; 4093; 4194; 4197; 4477; 4532; 4630; 4768; 4915; 5055; 5298; 5543; 5664; 5683; 5810; 5838
SspI	AAT!ATT	2	2871; 3424
SspDI	G!GCGCC	2	638; 3962
SspD5I	GGTGANNNNNNNN!	9	376; 718; 863; 1289; 1429; 1921; 2290; 5034; 5150
SspD5I	!NNNNNNNNTCACC	7	876; 906; 1217; 1317; 2178; 3079; 4140
SstI	GAGCT!C	0	
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	2223
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	23	92; 118; 285; 641; 649; 1023; 2145; 2169; 2361; 2463; 2484; 3162; 3284; 3639; 3660; 3973; 4376; 4515; 4586; 4856; 4988; 5218; 5656
Sth132I	!NNNNNNNNCCGGG	23	15; 407; 470; 627; 1753; 1821; 2194; 2398; 3163; 3215; 3316; 4043; 4085; 4118; 4622; 4731; 4760; 4907; 5011; 5042; 5495; 5539; 5747
Sth302II	CC!GG	24	602; 636; 644; 1864; 1873; 1882; 1896; 2479; 3182; 3869; 3946; 3968; 3996; 4127; 4217; 4284; 4465; 4740; 4748; 4840; 5314; 5504; 5530; 5677
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	5	1481; 3831; 4288; 4313; 4767
StsI	!NNNNNNNNNNNNNNCATCC	5	1974; 2062; 2119; 2274; 3635
StuI	AGG!CCT	4	675; 1139; 2333; 3784
StyI	C!CWGGG	7	360; 624; 1905; 3692; 3785; 4395; 4800
StyD4I	!CCNGG	28	88; 281; 633; 634; 641; 1134; 1449; 1671; 1767; 2079; 2127; 2223; 2238; 2367; 2476; 3497; 3552; 3569; 3965; 4125; 4348; 4738; 4927; 5030; 5502; 5720; 5733; 5854
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	20	76; 198; 269; 543; 581; 699; 944; 1024; 1354; 1613; 1730; 1963; 3054; 4343; 4459; 4567; 4890; 5381; 5851; 5922
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 940; 1547; 2265; 2541; 3026; 3038; 3081; 3191; 4082; 4269; 5050; 5183
TaqI	T!CGA	17	614; 702; 797; 2046; 2073; 2541; 3112; 3803; 4076; 4232; 4256; 4292; 4454; 4645; 4690; 4945; 5783
TaqII	GACCGANNNNNNNNNN!	3	2983; 4000; 4668
TaqII	!NNNNNNNNTCGGTC	1	4912
TaqII	CACCCANNNNNNNNNN!	3	1231; 2036; 2141
TaqII	!NNNNNNNNTGGGTG	3	172; 3867; 4459
TasI	!AATT	12	18; 986; 1850; 2713; 2777; 2855; 2881; 2892; 3539; 3611; 3703; 5121
TatI	W!GTACW	7	217; 297; 330; 381; 1263; 1720; 1947
TauI	GCSG!C	20	632; 2055; 2367; 2609; 2612; 3283; 3297; 3735; 3874; 3937; 4032; 4197; 4200; 4439; 4535; 4576; 4704; 5058; 5686; 5841
TfiI	G!AWTC	8	1028; 2034; 2511; 4448; 4582; 4692; 4729; 5907
TliI	C!TCGAG	1	613
TruII	T!TAA	17	7; 1923; 2148; 2664; 2725; 2846; 2867; 2878; 2890; 2901; 2918; 3016; 3287; 5106; 5120; 5125; 5177
Tru9I	T!TAA	17	7; 1923; 2148; 2664; 2725; 2846; 2867; 2878; 2890; 2901; 2918; 3016; 3287; 5106; 5120; 5125; 5177
TscAI	CASTGNN!	12	702; 949; 1027; 1258; 1317; 1591; 1618; 2809; 4092; 5202; 5473; 5486
TseI	G!CWGC	21	652; 664; 840; 1179; 1456; 2103; 2247; 2545; 2739; 3258; 3923; 4024; 4066; 4107; 4200; 4587; 5040; 5266; 5472; 5475; 5540
TsoI	TARCCANNNNNNNNNN!	2	2935; 3282
TsoI	!NNNNNNNNTGGYTA	3	2072; 2740; 4492
Tsp45I	!GTSAC	12	1105; 1270; 1277; 1354; 1382; 1417; 1691; 1823; 2185; 3252; 4083; 4389
Tsp509I	!AATT	12	18; 986; 1850; 2713; 2777; 2855; 2881; 2892; 3539; 3611; 3703; 5121
TspDTI	ATGAANNNNNNNNNN!	7	1112; 1349; 1484; 1955; 2721; 4022; 4726
TspDTI	!NNNNNNNNTTCAT	6	26; 2083; 2104; 4440; 4896; 5103

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspEI	!AATT	12	18; 986; 1850; 2713; 2777; 2855; 2881; 2892; 3539; 3611; 3703; 5121
TspGWI	ACGGANNNNNNNNNNN!	1	4838
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	634
TspRI	CASTGNN!	12	702; 949; 1027; 1258; 1317; 1591; 1618; 2809; 4092; 5202; 5473; 5486
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	1	1390
TstI	GGANNNNNGTGNNNNNNNNNN!	1	1422
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GAC!NNGTC	1	4081
Tth111II	CAARCANNNNNNNNNN!	1	5290
Tth111II	!NNNNNNNNNTGYTTG	3	4398; 5258; 5297
UnbI	!GGNCC	17	82; 275; 630; 1013; 1210; 1764; 1779; 2053; 2296; 2388; 2409; 3069; 4478; 4923; 4969; 5027; 5060
Van9II	CCANNNN!NTGG	1	1208
Vha464I	C!TTAAG	1	2845
VneI	G!TGCAC	2	1984; 5567
VpaK11AI	!GGWCC	3	1779; 4478; 4923
VpaK11BI	G!GWCC	3	1780; 4479; 4924
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATY	4	1850; 2777; 2881; 2892
XbaI	T!CTAGA	1	2617
XceI	RCATG!Y	8	785; 958; 1741; 1936; 3533; 3605; 4368; 5885
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	11	585; 609; 1888; 2444; 4134; 4380; 4772; 5131; 5143; 5229; 5240
XmaI	C!CCGGG	1	634
XmaJI	C!CTAGG	2	3785; 4800
XmiI	GT!MKAC	2	1092; 2484
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	10	592; 1482; 2583; 2618; 2812; 3230; 3786; 4801; 5135; 5388
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3535; 3607; 5938