

## pFusionRed-paxillin vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	3182; 3387
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	3470; 4426; 6215
AatI	AGG!CCT	2	2769; 4220
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	2304; 2920
AccII	CG!CG	17	60; 2095; 2315; 3048; 3323; 3699; 3719; 3743; 3774; 4465; 4766; 5204; 5288; 5351; 5420; 5693; 6274
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	4501
Acc36I	ACCTGCNNNN!	2	4667; 5117
Acc36I	!NNNNNNNNGCAGGT	2	1595; 4286
Acc65I	G!GTACC	1	2309
AccB1I	G!GYRCC	11	465; 743; 1633; 1810; 1987; 2309; 2394; 2454; 3552; 4398; 4433
AccB7I	CCANNNN!NTGG	2	1491; 2939
AccBSI	CCG!CTC	2	3823; 5012
AccBSI	GAG!CGG	4	1697; 3042; 3659; 5066
AceIII	CAGCTCNNNNNNN!	6	875; 923; 1175; 1475; 2214; 3355
AceIII	!NNNNNNNNNNGAGCTG	4	552; 1257; 1392; 2340
Acil	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 738; 750; 753; 1895; 2093; 2313; 2653; 2791; 2893; 3046; 3714; 3717; 3731; 3821; 4069; 4081; 4090; 4102; 4112; 4123; 4169; 4308; 4371; 4873; 4918; 4984; 5010; 5135; 5138; 5286; 5418; 5725; 5869; 6365
Acil	G!CGG	33	370; 403; 528; 1211; 1456; 1576; 1697; 2095; 2315; 2488; 2800; 2842; 3042; 3659; 3686; 3774; 3884; 4465; 4529; 4630; 4633; 4913; 4968; 5066; 5204; 5351; 5491; 5734; 5979; 6100; 6119; 6246; 6274
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	9	1685; 2332; 4267; 4578; 4824; 5216; 5575; 5673; 5759
AcIWI	!NNNNNGATCC	7	580; 2319; 2875; 4643; 5187; 5574; 5671
AcoI	Y!GGCCR	7	827; 2998; 3043; 4305; 4479; 4870; 4897
AcsI	R!AATY	5	2160; 2293; 3213; 3317; 3328
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	1879; 2850; 4545; 4977
AcuI	!NNNNNNNNNNNNNNCTCAG	2	1366; 5775
AcvI	CAC!GTG	1	947
AcyI	GR!CGYC	9	122; 175; 258; 444; 1413; 2917; 4399; 5101; 5180
AdeI	CACNNN!GTG	3	1984; 2990; 3515
Afal	GT!AC	13	219; 244; 299; 332; 383; 540; 717; 951; 2311; 2385; 2535; 2787; 4705
Afel	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	28	49; 903; 1080; 1322; 1491; 1599; 1664; 1929; 2130; 2451; 2730; 2796; 2939; 3411; 3737; 4129; 4380; 4924; 5205; 5237; 5369; 5404; 5454; 5486; 5839; 6118; 6284; 6302
AfiiI	C!TTAAG	1	3281
AfiiiI	A!CRYGT	3	944; 1912; 6317
AgeI	A!CCGGT	2	662; 2330
AgsI	TTS!AA	9	1065; 1233; 2222; 2417; 3810; 3854; 3864; 4277; 5853
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	1807
Ajnl	!CCWGG	23	88; 281; 628; 718; 1009; 1045; 1490; 1629; 1663; 1951; 2515; 2659; 2674; 2803; 3933; 3988; 4005; 4784; 5363; 5466; 6156; 6169; 6290

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	GAANNNNNNNTTGGNNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	2343
AlfI	GCANNNNNTGCGNNNNNNNNNNNN!	3	991; 3973; 4045
AlfI	!NNNNNNNNNGCANNNNNTGCG	3	957; 3939; 4011
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	3481
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	1	3449
AluI	AG!CT	31	566; 865; 880; 913; 955; 1165; 1271; 1279; 1386; 1406; 1465; 1502; 2041; 2204; 2282; 2288; 2354; 2381; 2527; 2834; 3178; 3345; 3602; 3897; 4185; 4505; 4963; 5760; 6017; 6063; 6153
AluBI	AG!CT	31	566; 865; 880; 913; 955; 1165; 1271; 1279; 1386; 1406; 1465; 1502; 2041; 2204; 2282; 2288; 2354; 2381; 2527; 2834; 3178; 3345; 3602; 3897; 4185; 4505; 4963; 5760; 6017; 6063; 6153
AlwI	GGATCNNNN!	9	1685; 2332; 4267; 4578; 4824; 5216; 5575; 5673; 5759
AlwI	!NNNNNGATCC	7	580; 2319; 2875; 4643; 5187; 5574; 5671
Alw21I	GWGCW!C	9	1281; 1645; 2053; 2109; 2284; 2424; 4512; 4702; 6007
Alw26I	GTCTCN!	3	434; 856; 2280
Alw26I	!NNNNNGAGAC	8	895; 2772; 2862; 2961; 3823; 4241; 5260; 5388
Alw44I	G!TGCAC	2	2420; 6003
AlwNI	CAGNNN!CTG	3	1299; 5500; 5908
Ama87I	C!YCGRG	3	1942; 2277; 2320
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	1	2321
ApaBI	GCANNNNN!TGC	4	1661; 3967; 4039; 5501
ApaLI	G!TGCAC	2	2420; 6003
ApeKI	G!CWGC	31	1015; 1159; 1162; 1182; 1330; 1358; 1459; 1462; 1706; 1750; 2038; 2060; 2113; 2137; 2201; 2539; 2683; 2981; 3175; 3694; 4359; 4460; 4502; 4543; 4636; 5023; 5476; 5702; 5908; 5911; 5976
ApoI	R!AATY	5	2160; 2293; 3213; 3317; 3328
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4914
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4708; 5361; 6199
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4798
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	2515
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	3	961; 1693; 4227
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	1	1725
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	1	1647
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	4969
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNCCRAANNNNNNNGTC	1	2164
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	1	2196
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	22	586; 1678; 2325; 2855; 2881; 3057; 4237; 4241; 4260; 4571; 4649; 4730; 4739; 4817; 5193; 5209; 5568; 5580; 5658; 5666; 5677; 5752
AsiGI	A!CCGGT	2	662; 2330
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4517
Asp700I	GAANN!NNTTC	1	1864
Asp718I	G!GTACC	1	2309
AspA2I	C!CTAGG	2	4221; 5236
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	23	2092; 2814; 3021; 3665; 3673; 3699; 3721; 3730; 3743; 3774; 4393; 4401; 4465; 4502; 4768; 5028; 5204; 5290; 5693; 5802; 5976; 6076; 6143
AspS9I	G!GNCC	18	83; 276; 767; 1134; 1767; 1854; 2318; 2490; 2733; 2825; 2846; 2930; 3506; 4915; 5360; 5406; 5464; 5497
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	2291; 5081

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AsuC2I	CC!SGG	10	1943; 1944; 2321; 2322; 2566; 2914; 4403; 4563; 5176; 5940
AsuHPI	GGTGANNNNNNNN!	8	376; 1337; 1799; 2357; 2726; 3036; 5470; 5586
AsuHPI	!NNNNNNNTCACC	4	2157; 2615; 3516; 4577
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	3	1942; 2277; 2320
AvaII	G!GWCC	5	1134; 1854; 2930; 4915; 5360
AviII	TGC!GCA	1	4501
AvrII	C!CTAGG	2	4221; 5236
AxyI	CC!TNAGG	3	2599; 3879; 5511
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	10	748; 1835; 1943; 2321; 2397; 2424; 2457; 4345; 4438; 6007
BalI	TGG!CCA	2	3000; 4481
BamHI	G!GATCC	1	2324
BanI	G!GYRCC	11	465; 743; 1633; 1810; 1987; 2309; 2394; 2454; 3552; 4398; 4433
BanII	GRGCY!C	7	910; 1281; 2284; 2321; 3590; 4764; 5474
BanIII	AT!CGAT	1	4239
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	1	1361
BarI	GTANNNNNNCTTCNNNNNNNNNN!	1	1393
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	2	1491; 2939
BauI	C!ACGAG	5	1390; 2085; 2985; 5117; 6144
BauI	C!TCGTG	2	2835; 4991
BbeI	GGCG!C	1	4402
Bbr7I	GAAGACNNNNNN!	2	1637; 2646
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	1	947
BbsI	GAAGACNN!	2	1632; 2641
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	3969; 4041; 4804
BbvI	GCAGCNNNNNNNN!	17	1027; 1171; 1342; 1370; 1471; 1718; 2050; 2072; 2213; 2551; 2993; 3187; 4472; 4514; 5035; 5488; 5988
BbvI	!NNNNNNNNNNNGCTGC	11	1169; 1737; 2100; 2124; 2670; 3681; 4346; 4530; 4623; 5689; 5895
Bbv12I	GWGCW!C	9	1281; 1645; 2053; 2109; 2284; 2424; 4512; 4702; 6007
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	8	992; 1121; 1481; 2133; 3529; 4093; 4619; 5121
BccI	!NNNNNGATGG	7	1403; 1695; 1872; 3021; 3497; 4277; 4705
BceAI	ACGGCNNNNNNNNNN!	9	842; 1807; 2051; 2552; 2696; 2747; 2813; 4825; 5312
BceAI	!NNNNNNNNNNNNNGCCGT	3	3540; 4358; 5817
Bcefl	ACGGCNNNNNNNNNN!	9	842; 1807; 2051; 2552; 2696; 2747; 2813; 4825; 5312
Bcefl	!NNNNNNNNNNNNNGCCGT	3	3541; 4359; 5818
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	628
BcgI	!NNNNNNNNNNNGCANNNNNTCG	1	2027
BcgI	GCANNNNNNTCGNNNNNNNNNN!	1	2061
BcgI	!NNNNNNNNNNCGANNNNNTGC	1	594
BciVI	GTATCCNNNNN!	3	3828; 4618; 6119
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	10	1943; 1944; 2321; 2322; 2566; 2914; 4403; 4563; 5176; 5940
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	1882; 6252
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	2	1848; 6218
BfaI	C!TAG	10	592; 868; 898; 3054; 3248; 3666; 4222; 5237; 5571; 5824
BfiI	ACTGGGNNNNN!	2	1554; 4348
BfiI	!NNNNCCCAGT	7	289; 842; 1072; 1240; 1287; 1829; 4100
BfmI	C!TRYAG	7	976; 1168; 1524; 2298; 3734; 5861; 6052
BfoI	RGCG!Y	6	2093; 3022; 3666; 3674; 4402; 6077
BfrI	C!TTAAG	1	3281
BfuI	GTATCCNNNNN!	3	3828; 4618; 6119

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BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4667; 5117
BfuAI	!NNNNNNNNNGCAGGT	2	1595; 4286
BfuCI	!GATC	22	585; 1677; 2324; 2854; 2880; 3056; 4236; 4240; 4259; 4570; 4648; 4729; 4738; 4816; 5192; 5208; 5567; 5579; 5657; 5665; 5676; 5751
BglI	GCCNNNN!NGGC	6	90; 212; 283; 621; 2809; 4174
BglII	A!GATCT	0	
BisI	GC!NGC	52	753; 1016; 1160; 1163; 1183; 1331; 1359; 1460; 1463; 1707; 1751; 1895; 2039; 2061; 2093; 2096; 2114; 2138; 2202; 2489; 2540; 2684; 2801; 2982; 3046; 3176; 3695; 3717; 3731; 4169; 4308; 4360; 4371; 4461; 4466; 4503; 4544; 4631; 4637; 4873; 4969; 5010; 5024; 5138; 5477; 5492; 5703; 5909; 5912; 5977; 6120; 6275
BlnI	C!CTAGG	2	4221; 5236
BlpI	GC!TNAGC	1	909
BlsI	GCN!GC	52	754; 1017; 1161; 1164; 1184; 1332; 1360; 1461; 1464; 1708; 1752; 1896; 2040; 2062; 2094; 2097; 2115; 2139; 2203; 2490; 2541; 2685; 2802; 2983; 3047; 3177; 3696; 3718; 3732; 4170; 4309; 4361; 4372; 4462; 4467; 4504; 4545; 4632; 4638; 4874; 4970; 5011; 5025; 5139; 5478; 5493; 5704; 5910; 5913; 5978; 6121; 6276
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	5	1134; 1854; 2930; 4915; 5360
Bme1390I	CC!NGG	33	90; 283; 630; 720; 1011; 1047; 1492; 1631; 1665; 1943; 1944; 1953; 2321; 2322; 2517; 2566; 2661; 2676; 2805; 2914; 3935; 3990; 4007; 4403; 4563; 4786; 5176; 5365; 5468; 5940; 6158; 6171; 6292
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	3	1942; 2277; 2320
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	1807
BmgT120I	GG!NCC	18	84; 277; 768; 1135; 1768; 1855; 2319; 2491; 2734; 2826; 2847; 2931; 3507; 4916; 5361; 5407; 5465; 5498
BmiI	GGN!NCC	26	467; 745; 1580; 1635; 1812; 1989; 2216; 2311; 2319; 2326; 2396; 2456; 2847; 3554; 3575; 3587; 3778; 3939; 4011; 4400; 4435; 5283; 5362; 5407; 6250; 6289
BmrI	ACTGGGNNNNN!	2	1554; 4348
BmrI	!NNNNCCCAGT	7	289; 842; 1072; 1240; 1287; 1829; 4100
BmrFI	CC!NGG	33	90; 283; 630; 720; 1011; 1047; 1492; 1631; 1665; 1943; 1944; 1953; 2321; 2322; 2517; 2566; 2661; 2676; 2805; 2914; 3935; 3990; 4007; 4403; 4563; 4786; 5176; 5365; 5468; 5940; 6158; 6171; 6292
BmsI	GCATCNNNNN!	8	2149; 2578; 3215; 3978; 4050; 4698; 4762; 5037
BmsI	!NNNNNNNNNGATGC	8	357; 602; 2731; 2899; 4357; 4612; 4828; 6220
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1554; 4348
BmuI	!NNNNCCCAGT	7	289; 842; 1072; 1240; 1287; 1829; 4100
BoxI	GACNN!NNGTC	1	2973
BpiI	GAAGACNN!	2	1632; 2641
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	3	924; 4188; 5087
BpI	!NNNNNNNNGAGNNNNNCTC	3	892; 4156; 5055
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	1293; 5239
BpmI	!NNNNNNNNNNNNNNNCTCCAG	3	866; 2658; 5182
Bpu10I	CC!TNAGC	1	1639
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	2291; 5081
Bpu1102I	GC!TNAGC	1	909
BpuAI	GAAGACNN!	2	1632; 2641
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	2886; 5693; 6232
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	5	2181; 2268; 2889; 4775; 5934
BpuMI	CC!SGG	10	1943; 1944; 2321; 2322; 2566; 2914; 4403; 4563; 5176; 5940
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	2862; 2961; 5388

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Bsa29I	AT!CGAT	1	4239
BsaAI	YAC!GTR	5	340; 715; 947; 3515; 4703
BsaBI	GATNN!NNATC	2	3061; 4258
BsaHI	GR!CGYC	9	122; 175; 258; 444; 1413; 2917; 4399; 5101; 5180
BsaJI	C!CNNGG	28	360; 598; 1009; 1316; 1564; 1618; 1942; 2093; 2149; 2313; 2320; 2341; 2428; 2659; 3933; 4005; 4128; 4163; 4172; 4221; 4562; 4831; 5236; 5363; 5364; 5466; 5467; 6157
BsaMI	GAATGCN!	2	1061; 3150
BsaMI	G!CATTC	1	3243
BsaWI	W!CCGGW	7	662; 1131; 2330; 4430; 5274; 5964; 6111
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3479
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	3449
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	3400; 5307
Bsc4I	CCNNNNN!NNGG	28	49; 903; 1080; 1322; 1491; 1599; 1664; 1929; 2130; 2451; 2730; 2796; 2939; 3411; 3737; 4129; 4380; 4924; 5205; 5237; 5369; 5404; 5454; 5486; 5839; 6118; 6284; 6302
BscAI	GCATCNNNN!	8	2148; 2577; 3214; 3977; 4049; 4697; 4761; 5036
BscAI	!NNNNNGATGC	8	360; 605; 2734; 2902; 4360; 4615; 4831; 6223
BseI	ACTGGN!	10	625; 707; 1036; 1402; 1549; 2944; 3017; 4343; 4544; 5790
BseI	C!CAGT	15	295; 760; 800; 848; 883; 931; 1078; 1246; 1293; 1351; 1835; 3428; 4106; 5902; 5915
Bse8I	GATNN!NNATC	2	3061; 4258
Bse21I	CC!TNAGG	3	2599; 3879; 5511
Bse118I	R!CCGGY	8	662; 740; 1452; 2330; 3616; 4718; 4899; 5182
BseAI	T!CCGGA	0	
BseBI	CC!WGG	23	90; 283; 630; 720; 1011; 1047; 1492; 1631; 1665; 1953; 2517; 2661; 2676; 2805; 3935; 3990; 4007; 4786; 5365; 5468; 6158; 6171; 6292
BseCI	AT!CGAT	1	4239
BseDI	C!CNNGG	28	360; 598; 1009; 1316; 1564; 1618; 1942; 2093; 2149; 2313; 2320; 2341; 2428; 2659; 3933; 4005; 4128; 4163; 4172; 4221; 4562; 4831; 5236; 5363; 5364; 5466; 5467; 6157
Bse3DI	GCAATGNN!	2	1769; 4632
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	8	1271; 1406; 1706; 1883; 4259; 4716; 4741; 5195
BseGI	!CATCC	6	1147; 1473; 2424; 2512; 2569; 4085
BseJI	GATNN!NNATC	2	3061; 4258
BseLI	CCNNNNN!NNGG	28	49; 903; 1080; 1322; 1491; 1599; 1664; 1929; 2130; 2451; 2730; 2796; 2939; 3411; 3737; 4129; 4380; 4924; 5205; 5237; 5369; 5404; 5454; 5486; 5839; 6118; 6284; 6302
BseMI	GCAATGNN!	2	1769; 4632
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	4	855; 923; 1102; 5525
BseMII	!NNNNNNNNCTGAG	8	1630; 1984; 2590; 3870; 4172; 5053; 5625; 6034
BseNI	ACTGGN!	10	625; 707; 1036; 1402; 1549; 2944; 3017; 4343; 4544; 5790
BseNI	C!CAGT	15	295; 760; 800; 848; 883; 931; 1078; 1246; 1293; 1351; 1835; 3428; 4106; 5902; 5915
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	3	951; 1683; 4217
BseRI	!NNNNNNNNCTCCTC	1	1735
BseSI	GKGCMLC	10	748; 1835; 1943; 2321; 2397; 2424; 2457; 4345; 4438; 6007
BseXI	GCAGCNNNNNNNN!	17	1027; 1171; 1342; 1370; 1471; 1718; 2050; 2072; 2213; 2551; 2993; 3187; 4472; 4514; 5035; 5488; 5988
BseXI	!NNNNNNNNNNNGCTGC	11	1169; 1737; 2100; 2124; 2670; 3681; 4346; 4530; 4623; 5689; 5895
BseX3I	C!GGCCG	2	3043; 4305
BseYI	C!CCAGC	6	810; 1336; 2723; 3942; 4014; 6013
BseYI	G!CTGGG	4	1514; 1599; 2761; 4903
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	2	1168; 1637
Bsh1236I	CG!CG	17	60; 2095; 2315; 3048; 3323; 3699; 3719; 3743; 3774; 4465; 4766; 5204; 5288; 5351; 5420; 5693; 6274
Bsh1285I	CGRY!CG	6	663; 1561; 2335; 3046; 4308; 5983

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BshFI	GG!CC	32	84; 277; 768; 829; 1769; 2319; 2491; 2734; 2769; 2803; 2826; 2848; 2958; 3000; 3045; 3365; 3507; 4162; 4168; 4177; 4220; 4307; 4481; 4872; 4899; 5408; 5465; 5498; 5843; 6277; 6295; 6306
BshNI	G!GYRCC	11	465; 743; 1633; 1810; 1987; 2309; 2394; 2454; 3552; 4398; 4433
BshTI	A!CCGGT	2	662; 2330
BshVI	AT!CGAT	1	4239
BsiEI	CGRY!CG	6	663; 1561; 2335; 3046; 4308; 5983
BsiHKAI	GWGCW!C	9	1281; 1645; 2053; 2109; 2284; 2424; 4512; 4702; 6007
BsiHKCI	C!YCGRG	3	1942; 2277; 2320
BsiSI	C!CGG	25	663; 741; 1132; 1453; 1943; 2321; 2331; 2565; 2914; 3617; 4304; 4381; 4403; 4431; 4562; 4652; 4719; 4900; 5175; 5183; 5275; 5749; 5939; 5965; 6112
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	28	49; 903; 1080; 1322; 1491; 1599; 1664; 1929; 2130; 2451; 2730; 2796; 2939; 3411; 3737; 4129; 4380; 4924; 5205; 5237; 5369; 5404; 5454; 5486; 5839; 6118; 6284; 6302
BsIFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 2146; 4550; 5082; 5191
BsIFI	!NNNNNNNNNNNNNGTCCC	8	830; 1228; 1281; 1400; 3915; 3987; 4051; 5346
BsmI	GAATGCN!	2	1061; 3150
BsmI	G!CATTC	1	3243
BsmAI	GTCTCN!	3	434; 856; 2280
BsmAI	!NNNNNGAGAC	8	895; 2772; 2862; 2961; 3823; 4241; 5260; 5388
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	2	895; 2772
BsmFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 2146; 4550; 5082; 5191
BsmFI	!NNNNNNNNNNNNNGTCCC	8	830; 1228; 1281; 1400; 3915; 3987; 4051; 5346
BsnI	GG!CC	32	84; 277; 768; 829; 1769; 2319; 2491; 2734; 2769; 2803; 2826; 2848; 2958; 3000; 3045; 3365; 3507; 4162; 4168; 4177; 4220; 4307; 4481; 4872; 4899; 5408; 5465; 5498; 5843; 6277; 6295; 6306
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	2862; 2961; 5388
BsoBI	C!YCGRG	3	1942; 2277; 2320
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	7	360; 598; 1618; 2149; 2341; 4128; 4831
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	3	289; 1823; 5202
Bsp24I	!NNNNNNCCANNNNNGTC	3	1279; 5623; 5801
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	3	1311; 5655; 5833
Bsp24I	!NNNNNNNGACNNNNNTGG	3	257; 1791; 5170
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	2291; 5081
Bsp120I	G!GGCCC	1	2317
Bsp143I	!GATC	22	585; 1677; 2324; 2854; 2880; 3056; 4236; 4240; 4259; 4570; 4648; 4729; 4738; 4816; 5192; 5208; 5567; 5579; 5657; 5665; 5676; 5751
Bsp1286I	GDGCH!C	21	748; 910; 1281; 1645; 1835; 1943; 2053; 2109; 2284; 2321; 2397; 2424; 2457; 3590; 4345; 4438; 4512; 4702; 4764; 5474; 6007
Bsp1407I	T!GTACA	2	949; 2383
Bsp1720I	GC!TNAGC	1	909
BspACI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 738; 750; 753; 1895; 2093; 2313; 2653; 2791; 2893; 3046; 3714; 3717; 3731; 3821; 4069; 4081; 4090; 4102; 4112; 4123; 4169; 4308; 4371; 4873; 4918; 4984; 5010; 5135; 5138; 5286; 5418; 5725; 5869; 6365
BspACI	G!CGG	33	370; 403; 528; 1211; 1456; 1576; 1697; 2095; 2315; 2488; 2800; 2842; 3042; 3659; 3686; 3774; 3884; 4465; 4529; 4630; 4633; 4913; 4968; 5066; 5204; 5351; 5491; 5734; 5979; 6100; 6119; 6246; 6274
BspCNI	CTCAGNNNNNNNN!	4	854; 922; 1101; 5524
BspCNI	!NNNNNNCTGAG	8	1631; 1985; 2591; 3871; 4173; 5054; 5626; 6035
BspDI	AT!CGAT	1	4239
BspD6I	GACTCNNNN!	5	418; 3058; 3472; 5078; 5955
BspD6I	!NNNNNGAGTC	3	2613; 3435; 3867
BspEI	T!CCGGA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspFNI	CG!CG	17	60; 2095; 2315; 3048; 3323; 3699; 3719; 3743; 3774; 4465; 4766; 5204; 5288; 5351; 5420; 5693; 6274
BspHI	T!CATGA	3	1868; 3825; 5597
BspLI	GGN!NCC	26	467; 745; 1580; 1635; 1812; 1989; 2216; 2311; 2319; 2326; 2396; 2456; 2847; 3554; 3575; 3587; 3778; 3939; 4011; 4400; 4435; 5283; 5362; 5407; 6250; 6289
BspMI	ACCTGCNNNN!	2	4667; 5117
BspMI	!NNNNNNNNGCAGGT	2	1595; 4286
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	1685; 2332; 4267; 4578; 4824; 5216; 5575; 5673; 5759
BspPI	!NNNNNGATCC	7	580; 2319; 2875; 4643; 5187; 5574; 5671
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	4743; 4953
BspTI	C!TTAAG	1	3281
BspT104I	TT!CGAA	2	2291; 5081
BspT107I	G!GYRCC	11	465; 743; 1633; 1810; 1987; 2309; 2394; 2454; 3552; 4398; 4433
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	2862; 2961; 5388
BsrI	ACTGGN!	10	625; 707; 1036; 1402; 1549; 2944; 3017; 4343; 4544; 5790
BsrI	C!CAGT	15	295; 760; 800; 848; 883; 931; 1078; 1246; 1293; 1351; 1835; 3428; 4106; 5902; 5915
BsrBI	CCG!CTC	2	3823; 5012
BsrBI	GAG!CGG	4	1697; 3042; 3659; 5066
BsrDI	GCAATGNN!	2	1769; 4632
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	8	662; 740; 1452; 2330; 3616; 4718; 4899; 5182
BsrGI	T!GTACA	2	949; 2383
BsrSI	ACTGGN!	10	625; 707; 1036; 1402; 1549; 2944; 3017; 4343; 4544; 5790
BsrSI	C!CAGT	15	295; 760; 800; 848; 883; 931; 1078; 1246; 1293; 1351; 1835; 3428; 4106; 5902; 5915
BssAI	R!CCGGY	8	662; 740; 1452; 2330; 3616; 4718; 4899; 5182
BssECI	C!CNNGG	28	360; 598; 1009; 1316; 1564; 1618; 1942; 2093; 2149; 2313; 2320; 2341; 2428; 2659; 3933; 4005; 4128; 4163; 4172; 4221; 4562; 4831; 5236; 5363; 5364; 5466; 5467; 6157
BssHII	G!CGCGC	0	
BssKI	!CCNGG	33	88; 281; 628; 718; 1009; 1045; 1490; 1629; 1663; 1941; 1942; 1951; 2319; 2320; 2515; 2564; 2659; 2674; 2803; 2912; 3933; 3988; 4005; 4401; 4561; 4784; 5174; 5363; 5466; 5938; 6156; 6169; 6290
BssMI	!GATC	22	585; 1677; 2324; 2854; 2880; 3056; 4236; 4240; 4259; 4570; 4648; 4729; 4738; 4816; 5192; 5208; 5567; 5579; 5657; 5665; 5676; 5751
BssNI	GR!CGYC	9	122; 175; 258; 444; 1413; 2917; 4399; 5101; 5180
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	5	1390; 2085; 2985; 5117; 6144
BssSI	C!TCGTG	2	2835; 4991
BssT1I	C!CWGGG	11	360; 598; 1316; 1564; 1618; 2149; 2341; 4128; 4221; 4831; 5236
Bst6I	CTCTTCN!	2	1743; 2274
Bst6I	!NNNNGAAGAG	3	3866; 4743; 4953
Bst98I	C!TTAAG	1	3281
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 1413; 2917; 4399; 5101; 5180
BstAFI	C!TTAAG	1	3281
BstAPI	GCANNNN!NTGC	4	1660; 3966; 4038; 5500
BstAUI	T!GTACA	2	949; 2383
BstBI	TT!CGAA	2	2291; 5081
Bst2BI	C!ACGAG	5	1390; 2085; 2985; 5117; 6144
Bst2BI	C!TCGTG	2	2835; 4991
BstBAI	YAC!GTR	5	340; 715; 947; 3515; 4703
Bst4CI	ACN!GT	21	76; 198; 269; 543; 581; 782; 1310; 1559; 1716; 2026; 2247; 2309; 2399; 3490; 4779; 4895; 5003; 5326; 5817; 6287; 6358
BstC8I	GCN!NGC	36	86; 279; 593; 1260; 1454; 1583; 2100; 2317; 2352; 2442; 2646; 3618; 3661; 3675; 3948; 3967; 4020; 4039; 4293; 4479; 4698; 4764; 4770; 4798; 4802; 4843; 4847; 4901; 5184; 5371; 5418; 5474; 5496; 5707; 6267; 6304

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstDEI	C!TNAG	14	655; 794; 841; 909; 1088; 1639; 1993; 2599; 3879; 4181; 5062; 5511; 5634; 6043
BstDSI	C!CRYGG	9	360; 598; 1618; 2093; 2149; 2313; 2341; 4128; 4831
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	8	1271; 1406; 1706; 1883; 4259; 4716; 4741; 5195
BstF5I	!CATCC	6	1147; 1473; 2424; 2512; 2569; 4085
BstFNI	CG!CG	17	60; 2095; 2315; 3048; 3323; 3699; 3719; 3743; 3774; 4465; 4766; 5204; 5288; 5351; 5420; 5693; 6274
BstH2I	RGCGC!Y	6	2093; 3022; 3666; 3674; 4402; 6077
BstHHI	GCG!C	23	2092; 2814; 3021; 3665; 3673; 3699; 3721; 3730; 3743; 3774; 4393; 4401; 4465; 4502; 4768; 5028; 5204; 5290; 5693; 5802; 5976; 6076; 6143
BstKTI	GAT!C	22	588; 1680; 2327; 2857; 2883; 3059; 4239; 4243; 4262; 4573; 4651; 4732; 4741; 4819; 5195; 5211; 5570; 5582; 5660; 5668; 5679; 5754
BstMAI	GTCTCN!	3	434; 856; 2280
BstMAI	!NNNNNGAGAC	8	895; 2772; 2862; 2961; 3823; 4241; 5260; 5388
BstMBI	!GATC	22	585; 1677; 2324; 2854; 2880; 3056; 4236; 4240; 4259; 4570; 4648; 4729; 4738; 4816; 5192; 5208; 5567; 5579; 5657; 5665; 5676; 5751
BstMCI	CGRY!CG	6	663; 1561; 2335; 3046; 4308; 5983
BstMWI	GCNNNNN!NNGC	40	90; 212; 244; 283; 376; 400; 621; 752; 1268; 1383; 1462; 1560; 1582; 1640; 1660; 1703; 1759; 2057; 2104; 2378; 2809; 3626; 3656; 3683; 3725; 3966; 4038; 4089; 4168; 4390; 4474; 4497; 4636; 4759; 4842; 5109; 5296; 5500; 5699; 6271
BstNI	CC!WGG	23	90; 283; 630; 720; 1011; 1047; 1492; 1631; 1665; 1953; 2517; 2661; 2676; 2805; 3935; 3990; 4007; 4786; 5365; 5468; 6158; 6171; 6292
BstNSI	RCATG!Y	7	1916; 2372; 2818; 3969; 4041; 4804; 6321
BstOI	CC!WGG	23	90; 283; 630; 720; 1011; 1047; 1492; 1631; 1665; 1953; 2517; 2661; 2676; 2805; 3935; 3990; 4007; 4786; 5365; 5468; 6158; 6171; 6292
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	2973
BstSCI	!CCNGG	33	88; 281; 628; 718; 1009; 1045; 1490; 1629; 1663; 1941; 1942; 1951; 2319; 2320; 2515; 2564; 2659; 2674; 2803; 2912; 3933; 3988; 4005; 4401; 4561; 4784; 5174; 5363; 5466; 5938; 6156; 6169; 6290
BstSFI	C!TRYAG	7	976; 1168; 1524; 2298; 3734; 5861; 6052
BstSLI	GKGCMLC	10	748; 1835; 1943; 2321; 2397; 2424; 2457; 4345; 4438; 6007
BstSNI	TAC!GTA	2	340; 715
BstUI	CG!CG	17	60; 2095; 2315; 3048; 3323; 3699; 3719; 3743; 3774; 4465; 4766; 5204; 5288; 5351; 5420; 5693; 6274
Bst2UI	CC!WGG	23	90; 283; 630; 720; 1011; 1047; 1492; 1631; 1665; 1953; 2517; 2661; 2676; 2805; 3935; 3990; 4007; 4786; 5365; 5468; 6158; 6171; 6292
BstV1I	GCAGCNNNNNNN!	17	1027; 1171; 1342; 1370; 1471; 1718; 2050; 2072; 2213; 2551; 2993; 3187; 4472; 4514; 5035; 5488; 5988
BstV1I	!NNNNNNNNNNNGCTGC	11	1169; 1737; 2100; 2124; 2670; 3681; 4346; 4530; 4623; 5689; 5895
BstV2I	GAAGACNN!	2	1632; 2641
BstV2I	!NNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	585; 2324; 2880; 4570; 4816; 5208; 5567; 5579; 5665; 5676
BstYI	R!GATCY	10	585; 2324; 2880; 4570; 4816; 5208; 5567; 5579; 5665; 5676
BstZI	C!GGCCG	2	3043; 4305
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3828; 4618; 6119
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	4239
Bsu36I	CC!TNAGG	3	2599; 3879; 5511
BsuRI	GG!CC	32	84; 277; 768; 829; 1769; 2319; 2491; 2734; 2769; 2803; 2826; 2848; 2958; 3000; 3045; 3365; 3507; 4162; 4168; 4177; 4220; 4307; 4481; 4872; 4899; 5408; 5465; 5498; 5843; 6277; 6295; 6306
BsuTUI	AT!CGAT	1	4239
BtgI	C!CRYGG	9	360; 598; 1618; 2093; 2149; 2313; 2341; 4128; 4831



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BtgZI	GCGATGNNNNNNNNNN!	2	3516; 4851
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 4670; 5014
BthCI	GCNG!C	52	755; 1018; 1162; 1165; 1185; 1333; 1361; 1462; 1465; 1709; 1753; 1897; 2041; 2063; 2095; 2098; 2116; 2140; 2204; 2491; 2542; 2686; 2803; 2984; 3048; 3178; 3697; 3719; 3733; 4171; 4310; 4362; 4373; 4463; 4468; 4505; 4546; 4633; 4639; 4875; 4971; 5012; 5026; 5140; 5479; 5494; 5705; 5911; 5914; 5979; 6122; 6277
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	1807
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	4	1116; 1658; 2143; 3238
BtsCI	GGATGNN!	8	1271; 1406; 1706; 1883; 4259; 4716; 4741; 5195
BtsCI	!CATCC	6	1147; 1473; 2424; 2512; 2569; 4085
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4667; 5117
BveI	!NNNNNNNNNGCAGGT	2	1595; 4286
Cac8I	GCN!NGC	36	86; 279; 593; 1260; 1454; 1583; 2100; 2317; 2352; 2442; 2646; 3618; 3661; 3675; 3948; 3967; 4020; 4039; 4293; 4479; 4698; 4764; 4770; 4798; 4802; 4843; 4847; 4901; 5184; 5371; 5418; 5474; 5496; 5707; 6267; 6304
CaiI	CAGNNN!CTG	3	1299; 5500; 5908
CciI	T!CATGA	3	1868; 3825; 5597
CciNI	GC!GGCCGC	1	3043
CdiI	CATC!G	5	352; 4688; 4693; 4891; 5032
CdiI	C!GATG	5	611; 2782; 2963; 3502; 4837
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	2	1601; 6271
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 4060; 4102
CelII	GC!TNAGC	1	909
CfoI	GCG!C	23	2092; 2814; 3021; 3665; 3673; 3699; 3721; 3730; 3743; 3774; 4393; 4401; 4465; 4502; 4768; 5028; 5204; 5290; 5693; 5802; 5976; 6076; 6143
CfrI	Y!GGCCR	7	827; 2998; 3043; 4305; 4479; 4870; 4897
Cfr9I	C!CCGGG	2	1942; 2320
Cfr10I	R!CCGGY	8	662; 740; 1452; 2330; 3616; 4718; 4899; 5182
Cfr13I	G!GNCC	18	83; 276; 767; 1134; 1767; 1854; 2318; 2490; 2733; 2825; 2846; 2930; 3506; 4915; 5360; 5406; 5464; 5497
Cfr42I	CCGC!GG	2	2096; 2316
ChaI	GATC!	22	589; 1681; 2328; 2858; 2884; 3060; 4240; 4244; 4263; 4574; 4652; 4733; 4742; 4820; 5196; 5212; 5571; 5583; 5661; 5669; 5680; 5755
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	7	760; 1312; 2436; 4216; 5656; 5756; 5834
CjeI	!NNNNNNNNNACNNNNNNNTGG	10	64; 257; 1381; 1791; 1968; 3883; 3978; 5170; 5720; 6275
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	10	98; 291; 1415; 1825; 2002; 3917; 4012; 5204; 5754; 6309
CjeI	!NNNNNNNNCCANNNNNNGT	7	726; 1278; 2402; 4182; 5622; 5722; 5800
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	3	1312; 5656; 5834
CjePI	!NNNNNNNNGANNNNNNNNTGG	4	257; 1791; 5170; 5769
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	4	290; 1824; 5203; 5802
CjePI	!NNNNNNNNCCANNNNNNNNTC	3	1279; 5623; 5801
Clal	AT!CGAT	1	4239
CpoI	CG!GWCCG	1	4915
CseI	GACGCNNNNN!	4	526; 2143; 5109; 5188
CseI	!NNNNNNNNNNNGCGTC	6	1230; 1402; 2906; 3732; 5627; 6205
CsiI	A!CCWGGT	1	3988
CspI	CG!GWCCG	1	4915
Csp6I	G!TAC	13	218; 243; 298; 331; 382; 539; 716; 950; 2310; 2384; 2534; 2786; 4704
Csp45I	TT!CGAA	2	2291; 5081
CspAI	A!CCGGT	2	662; 2330
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	4	2386; 2977; 3679; 5288
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviAII	C!ATG	31	301; 361; 599; 1436; 1511; 1619; 1869; 1913; 2150; 2342; 2369; 2375; 2387; 2465; 2531; 2611; 2815; 2822; 3826; 3966; 4038; 4129; 4270; 4615; 4801; 4832; 4858; 5214; 5598; 6318; 6369
CviJI	RG!CY	135	42; 84; 93; 277; 566; 768; 829; 865; 880; 908; 913; 955; 1040; 1084; 1111; 1165; 1182; 1258; 1271; 1279; 1291; 1315; 1333; 1386; 1406; 1452; 1465; 1490; 1502; 1581; 1592; 1617; 1709; 1769; 1794; 1887; 1936; 1947; 2041; 2063; 2098; 2113; 2123; 2204; 2240; 2282; 2288; 2319; 2354; 2381; 2444; 2491; 2520; 2527; 2605; 2671; 2683; 2727; 2734; 2761; 2769; 2803; 2826; 2834; 2848; 2958; 2994; 3000; 3045; 3068; 3178; 3345; 3365; 3507; 3588; 3602; 3616; 3897; 3938; 4010; 4133; 4162; 4168; 4177; 4185; 4208; 4220; 4226; 4307; 4324; 4332; 4359; 4384; 4468; 4477; 4481; 4505; 4543; 4619; 4636; 4655; 4718; 4762; 4772; 4789; 4872; 4899; 4903; 4940; 4963; 4979; 5159; 5186; 5247; 5369; 5408; 5465; 5472; 5479; 5498; 5509; 5760; 5789; 5832; 5843; 5908; 5987; 6012; 6017; 6063; 6153; 6251; 6277; 6295; 6306
CviKI-1	RG!CY	135	42; 84; 93; 277; 566; 768; 829; 865; 880; 908; 913; 955; 1040; 1084; 1111; 1165; 1182; 1258; 1271; 1279; 1291; 1315; 1333; 1386; 1406; 1452; 1465; 1490; 1502; 1581; 1592; 1617; 1709; 1769; 1794; 1887; 1936; 1947; 2041; 2063; 2098; 2113; 2123; 2204; 2240; 2282; 2288; 2319; 2354; 2381; 2444; 2491; 2520; 2527; 2605; 2671; 2683; 2727; 2734; 2761; 2769; 2803; 2826; 2834; 2848; 2958; 2994; 3000; 3045; 3068; 3178; 3345; 3365; 3507; 3588; 3602; 3616; 3897; 3938; 4010; 4133; 4162; 4168; 4177; 4185; 4208; 4220; 4226; 4307; 4324; 4332; 4359; 4384; 4468; 4477; 4481; 4505; 4543; 4619; 4636; 4655; 4718; 4762; 4772; 4789; 4872; 4899; 4903; 4940; 4963; 4979; 5159; 5186; 5247; 5369; 5408; 5465; 5472; 5479; 5498; 5509; 5760; 5789; 5832; 5843; 5908; 5987; 6012; 6017; 6063; 6153; 6251; 6277; 6295; 6306
CviQI	G!TAC	13	218; 243; 298; 331; 382; 539; 716; 950; 2310; 2384; 2534; 2786; 4704
DdeI	C!TNAG	14	655; 794; 841; 909; 1088; 1639; 1993; 2599; 3879; 4181; 5062; 5511; 5634; 6043
DinI	GGC!GCC	1	4400
DpnI	GA!TC	22	587; 1679; 2326; 2856; 2882; 3058; 4238; 4242; 4261; 4572; 4650; 4731; 4740; 4818; 5194; 5210; 5569; 5581; 5659; 5667; 5678; 5753
DpnII	!GATC	22	585; 1677; 2324; 2854; 2880; 3056; 4236; 4240; 4259; 4570; 4648; 4729; 4738; 4816; 5192; 5208; 5567; 5579; 5657; 5665; 5676; 5751
DraI	TTT!AAA	3	3101; 5543; 5562
DraII	RG!GNCCY	2	767; 5497
DraIII	CACNNN!GTG	3	1984; 2990; 3515
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	4	266; 1924; 2581; 5879
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	3470; 4426; 6215
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	3470; 4426; 6215
EaeI	Y!GGCCR	7	827; 2998; 3043; 4305; 4479; 4870; 4897
EagI	C!GGCCG	2	3043; 4305
Eam1104I	CTCTCN!	2	1743; 2274
Eam1104I	!NNNNGAAGAG	3	3866; 4743; 4953
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	2	1743; 2274
EarI	!NNNNGAAGAG	3	3866; 4743; 4953
EciI	GGCGGANNNNNNNNNNNN!	4	3899; 4928; 6115; 6261
EciI	!NNNNNNNNNTCCGCC	4	496; 4070; 4091; 4112
Ecl136II	GAG!CTC	2	1279; 2282
EclXI	C!GGCCG	2	3043; 4305
Eco24I	GRGCY!C	7	910; 1281; 2284; 2321; 3590; 4764; 5474
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	3	2862; 2961; 5388
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	5	1134; 1854; 2930; 4915; 5360

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	2	3043; 4305
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	1879; 2850; 4545; 4977
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	1366; 5775
Eco72I	CAC!GTG	1	947
Eco81I	CC!TNAGG	3	2599; 3879; 5511
Eco88I	C!YCGRG	3	1942; 2277; 2320
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	2	340; 715
Eco130I	C!CWWGG	11	360; 598; 1316; 1564; 1618; 2149; 2341; 4128; 4221; 4831; 5236
Eco147I	AGG!CCT	2	2769; 4220
EcoHI	!CCSGG	10	1941; 1942; 2319; 2320; 2564; 2912; 4401; 4561; 5174; 5938
EcoICRI	GAG!CTC	2	1279; 2282
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	6	1293; 1879; 2850; 4545; 4977; 5239
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	866; 1366; 2658; 5182; 5775
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	767; 5497
EcoRI	G!AATTC	1	2293
EcoRII	!CCWGG	23	88; 281; 628; 718; 1009; 1045; 1490; 1629; 1663; 1951; 2515; 2659; 2674; 2803; 3933; 3988; 4005; 4784; 5363; 5466; 6156; 6169; 6290
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	11	360; 598; 1316; 1564; 1618; 2149; 2341; 4128; 4221; 4831; 5236
EcoT22I	ATGCA!T	3	3971; 4043; 6374
EcoT38I	GRGCY!C	7	910; 1281; 2284; 2321; 3590; 4764; 5474
Eco53kI	GAG!CTC	2	1279; 2282
EgeI	GGC!GCC	1	4400
EheI	GGC!GCC	1	4400
ErhI	C!CWWGG	11	360; 598; 1316; 1564; 1618; 2149; 2341; 4128; 4221; 4831; 5236
EsaBC3I	TC!GA	19	611; 2048; 2279; 2292; 2305; 2483; 2510; 2978; 3549; 4240; 4513; 4669; 4693; 4729; 4891; 5082; 5127; 5382; 6220
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	2	895; 2772
FaeI	CATG!	31	304; 364; 602; 1439; 1514; 1622; 1872; 1916; 2153; 2345; 2372; 2378; 2390; 2468; 2534; 2614; 2818; 2825; 3829; 3969; 4041; 4132; 4273; 4618; 4804; 4835; 4861; 5217; 5601; 6321; 6372
Fail	YA!TR	74	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 600; 649; 712; 860; 1069; 1144; 1437; 1512; 1620; 1870; 1914; 2151; 2343; 2370; 2376; 2388; 2466; 2532; 2612; 2630; 2816; 2823; 2876; 3061; 3071; 3137; 3182; 3387; 3815; 3827; 3958; 3967; 4030; 4039; 4063; 4130; 4154; 4271; 4335; 4616; 4641; 4802; 4833; 4859; 4931; 5147; 5215; 5293; 5345; 5506; 5523; 5525; 5527; 5599; 5877; 6066; 6182; 6255; 6319; 6370
FalI	AAGNNNNCTTNNNNNNNNNN!	3	1922; 2609; 4739
FalI	!NNNNNNNAAGNNNNCTT	3	1890; 2577; 4707
FaqI	GGGACNNNNNNNN!	7	175; 326; 494; 2146; 4550; 5082; 5191
FaqI	!NNNNNNNNNNNNGTCCC	8	830; 1228; 1281; 1400; 3915; 3987; 4051; 5346
FatI	!CATG	31	300; 360; 598; 1435; 1510; 1618; 1868; 1912; 2149; 2341; 2368; 2374; 2386; 2464; 2530; 2610; 2814; 2821; 3825; 3965; 4037; 4128; 4269; 4614; 4800; 4831; 4857; 5213; 5597; 6317; 6368
FauI	CCCGCNNNN!	11	93; 119; 286; 757; 2798; 2900; 3721; 4076; 4097; 5293; 5425
FauI	!NNNNNGCGGG	8	1690; 2308; 2835; 3652; 4522; 5059; 5197; 5344
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	2	2304; 2920
FmuI	GGNC!C	18	86; 279; 770; 1137; 1770; 1857; 2321; 2493; 2736; 2828; 2849; 2933; 3509; 4918; 5363; 5409; 5467; 5500

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	52	753; 1016; 1160; 1163; 1183; 1331; 1359; 1460; 1463; 1707; 1751; 1895; 2039; 2061; 2093; 2096; 2114; 2138; 2202; 2489; 2540; 2684; 2801; 2982; 3046; 3176; 3695; 3717; 3731; 4169; 4308; 4360; 4371; 4461; 4466; 4503; 4544; 4631; 4637; 4873; 4969; 5010; 5024; 5138; 5477; 5492; 5703; 5909; 5912; 5977; 6120; 6275
FokI	GGATGNNNNNNNNNN!	8	1278; 1413; 1713; 1890; 4266; 4723; 4748; 5202
FokI	!NNNNNNNNNNNNNNCATCC	6	1134; 1460; 2411; 2499; 2556; 4072
FriOI	GRGCY!C	7	910; 1281; 2284; 2321; 3590; 4764; 5474
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4501
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 868; 898; 3054; 3248; 3666; 4222; 5237; 5571; 5824
FspEI	CCNNNNNNNNNNNN!	222	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 611; 629; 650; 676; 700; 723; 748; 762; 782; 804; 823; 843; 860; 887; 902; 929; 944; 972; 997; 1013; 1035; 1059; 1087; 1125; 1145; 1164; 1201; 1219; 1258; 1272; 1300; 1329; 1347; 1364; 1379; 1430; 1466; 1481; 1496; 1523; 1548; 1577; 1595; 1631; 1650; 1670; 1723; 1749; 1783; 1827; 1847; 1870; 1901; 1936; 1955; 1985; 2004; 2038; 2077; 2097; 2130; 2162; 2181; 2201; 2231; 2254; 2326; 2341; 2386; 2411; 2441; 2458; 2472; 2505; 2519; 2537; 2561; 2575; 2606; 2639; 2666; 2681; 2700; 2736; 2783; 2802; 2817; 2840; 2862; 2877; 2897; 2916; 2946; 2972; 3014; 3059; 3082; 3121; 3135; 3276; 3371; 3395; 3418; 3441; 3459; 3481; 3502; 3521; 3540; 3569; 3590; 3604; 3630; 3718; 3744; 3793; 3834; 3852; 3891; 3907; 3945; 4002; 4017; 4074; 4094; 4108; 4125; 4139; 4176; 4191; 4234; 4317; 4384; 4415; 4435; 4450; 4495; 4509; 4575; 4589; 4608; 4624; 4665; 4685; 4732; 4782; 4798; 4818; 4843; 4863; 4886; 4913; 4931; 4957; 4997; 5023; 5047; 5103; 5117; 5145; 5188; 5209; 5244; 5288; 5376; 5400; 5422; 5442; 5458; 5479; 5493; 5512; 5596; 5616; 5644; 5659; 5693; 5735; 5762; 5777; 5822; 5846; 5860; 5882; 5908; 5928; 5952; 5978; 6026; 6045; 6064; 6090; 6125; 6170; 6200; 6214; 6265; 6279; 6304; 6320; 6341; 6370
FspEI	!NNNNNNNNNNNNNNNGG	176	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 585; 606; 648; 688; 726; 750; 788; 811; 889; 921; 996; 1017; 1066; 1117; 1156; 1196; 1236; 1257; 1303; 1383; 1422; 1441; 1477; 1500; 1530; 1551; 1585; 1605; 1650; 1682; 1707; 1750; 1770; 1793; 1825; 1846; 1864; 1884; 1915; 1938; 1970; 1994; 2020; 2041; 2080; 2115; 2136; 2197; 2292; 2316; 2346; 2373; 2415; 2436; 2460; 2502; 2521; 2550; 2586; 2623; 2646; 2665; 2688; 2716; 2743; 2782; 2808; 2827; 2899; 2925; 2973; 2998; 3016; 3070; 3170; 3239; 3269; 3347; 3396; 3418; 3446; 3482; 3527; 3556; 3592; 3611; 3639; 3659; 3722; 3745; 3853; 3885; 3903; 3932; 3975; 4004; 4115; 4144; 4187; 4208; 4236; 4269; 4289; 4314; 4341; 4366; 4388; 4416; 4442; 4463; 4514; 4535; 4553; 4601; 4637; 4693; 4718; 4742; 4771; 4794; 4818; 4844; 4866; 4885; 4910; 4950; 4986; 5051; 5136; 5160; 5189; 5223; 5244; 5264; 5309; 5336; 5355; 5388; 5440; 5471; 5498; 5550; 5648; 5719; 5764; 5825; 5890; 5924; 5950; 5968; 6004; 6074; 6097; 6119; 6143; 6176; 6224; 6259; 6277; 6334
Fsp4HI	GC!NGC	52	753; 1016; 1160; 1163; 1183; 1331; 1359; 1460; 1463; 1707; 1751; 1895; 2039; 2061; 2093; 2096; 2114; 2138; 2202; 2489; 2540; 2684; 2801; 2982; 3046; 3176; 3695; 3717; 3731; 4169; 4308; 4360; 4371; 4461; 4466; 4503; 4544; 4631; 4637; 4873; 4969; 5010; 5024; 5138; 5477; 5492; 5703; 5909; 5912; 5977; 6120; 6275
GdiII	C!GGCCR	3	827; 3043; 4305
GdiII	Y!GGCCG	4	3043; 4305; 4870; 4897
GlaI	GC!GC	23	2091; 2813; 3020; 3664; 3672; 3698; 3720; 3729; 3742; 3773; 4392; 4400; 4464; 4501; 4767; 5027; 5203; 5289; 5692; 5801; 5975; 6075; 6142
GluI	GC!NGC	52	753; 1016; 1160; 1163; 1183; 1331; 1359; 1460; 1463; 1707; 1751; 1895; 2039; 2061; 2093; 2096; 2114; 2138; 2202; 2489; 2540; 2684; 2801; 2982; 3046; 3176; 3695; 3717; 3731; 4169; 4308; 4360; 4371; 4461; 4466; 4503; 4544; 4631; 4637; 4873; 4969; 5010; 5024; 5138; 5477; 5492; 5703; 5909; 5912; 5977; 6120; 6275
GsaI	CCCAG!C	6	814; 1340; 2727; 3946; 4018; 6017

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GsaI	GCTGG!G	4	1518; 1603; 2765; 4907
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	1293; 5239
GsuI	!NNNNNNNNNNNNNNCTCCAG	3	866; 2658; 5182
HaeI	WGG!CCW	7	2769; 3000; 4220; 4481; 5843; 6295; 6306
HaeII	RGGC!Y	6	2093; 3022; 3666; 3674; 4402; 6077
HaeIII	GG!CC	32	84; 277; 768; 829; 1769; 2319; 2491; 2734; 2769; 2803; 2826; 2848; 2958; 3000; 3045; 3365; 3507; 4162; 4168; 4177; 4220; 4307; 4481; 4872; 4899; 5408; 5465; 5498; 5843; 6277; 6295; 6306
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	4	651; 2158; 3074; 4595
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	4	617; 2124; 3040; 4561
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	4	650; 2157; 3073; 4594
HaeIV	!NNNNNNNGAYNNNNNNRTC	4	619; 2126; 3042; 4563
HapII	C!CGG	25	663; 741; 1132; 1453; 1943; 2321; 2331; 2565; 2914; 3617; 4304; 4381; 4403; 4431; 4562; 4652; 4719; 4900; 5175; 5183; 5275; 5749; 5939; 5965; 6112
HgaI	GACGCNNNNN!	4	526; 2143; 5109; 5188
HgaI	!NNNNNNNNNNNGCGTC	6	1230; 1402; 2906; 3732; 5627; 6205
HhaI	GCG!C	23	2092; 2814; 3021; 3665; 3673; 3699; 3721; 3730; 3743; 3774; 4393; 4401; 4465; 4502; 4768; 5028; 5204; 5290; 5693; 5802; 5976; 6076; 6143
HinI	GR!CGYC	9	122; 175; 258; 444; 1413; 2917; 4399; 5101; 5180
HinIII	CATG!	31	304; 364; 602; 1439; 1514; 1622; 1872; 1916; 2153; 2345; 2372; 2378; 2390; 2468; 2534; 2614; 2818; 2825; 3829; 3969; 4041; 4132; 4273; 4618; 4804; 4835; 4861; 5217; 5601; 6321; 6372
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	5	650; 1153; 2157; 3073; 4594
Hin4I	!NNNNNNNNNGABNNNNNNRTC	6	618; 1662; 2125; 3041; 4562; 4592
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	6	650; 1694; 2157; 3073; 4594; 4624
Hin4I	!NNNNNNNNNGAYNNNNNVTC	5	618; 1121; 2125; 3041; 4562
Hin6I	G!CGC	23	2090; 2812; 3019; 3663; 3671; 3697; 3719; 3728; 3741; 3772; 4391; 4399; 4463; 4500; 4766; 5026; 5202; 5288; 5691; 5800; 5974; 6074; 6141
HinP1I	G!CGC	23	2090; 2812; 3019; 3663; 3671; 3697; 3719; 3728; 3741; 3772; 4391; 4399; 4463; 4500; 4766; 5026; 5202; 5288; 5691; 5800; 5974; 6074; 6141
HincII	GTY!RAC	3	1346; 2305; 3162
HindII	GTY!RAC	3	1346; 2305; 3162
HindIII	A!AGCTT	1	2286
Hinfi	G!ANTC	16	410; 633; 2470; 2620; 2947; 3050; 3442; 3464; 3874; 4884; 5018; 5070; 5128; 5165; 5947; 6343
HpaI	GTT!AAC	1	3162
HpaII	C!CGG	25	663; 741; 1132; 1453; 1943; 2321; 2331; 2565; 2914; 3617; 4304; 4381; 4403; 4431; 4562; 4652; 4719; 4900; 5175; 5183; 5275; 5749; 5939; 5965; 6112
HphI	GGTGANNNNNNNN!	8	376; 1337; 1799; 2357; 2726; 3036; 5470; 5586
HphI	!NNNNNNNTCACC	4	2157; 2615; 3516; 4577
Hpy8I	GTN!NAC	16	201; 539; 577; 950; 1346; 2305; 2402; 2422; 2717; 2921; 2930; 3162; 3446; 3463; 3518; 6005
Hpy99I	CGWCG!	13	1559; 2058; 2309; 2484; 2964; 2979; 4489; 4517; 4811; 4826; 5103; 5488; 6221
Hpy166II	GTN!NAC	16	201; 539; 577; 950; 1346; 2305; 2402; 2422; 2717; 2921; 2930; 3162; 3446; 3463; 3518; 6005
Hpy188I	TCN!GA	17	585; 856; 1028; 1424; 1532; 2251; 2429; 3573; 4182; 4366; 4710; 5063; 5164; 5643; 5777; 6130; 6208
Hpy188III	TC!NNGA	25	820; 1869; 2010; 2277; 2906; 3054; 3826; 3878; 4191; 4244; 4417; 4733; 4742; 4825; 4881; 4925; 5015; 5048; 5117; 5598; 5672; 5755; 5853; 5951; 6085
HpyAV	CCTTCNNNNNN!	10	766; 928; 2198; 2228; 2510; 2558; 2603; 5044; 5151; 5830
HpyAV	!NNNNNGAAGG	13	1172; 1715; 1854; 1868; 2430; 2802; 3632; 4527; 5256; 5272; 5455; 5772; 6082
HpyCH4III	ACN!GT	21	76; 198; 269; 543; 581; 782; 1310; 1559; 1716; 2026; 2247; 2309; 2399; 3490; 4779; 4895; 5003; 5326; 5817; 6287; 6358
HpyCH4IV	A!CGT	20	122; 134; 175; 258; 339; 444; 714; 946; 1806; 2698; 2926; 2974; 3459; 3471; 3514; 3624; 4515; 4702; 5483; 5616
HpyCH4V	TG!CA	30	978; 1170; 1185; 1302; 1526; 1585; 1654; 1762; 2078; 2140; 2300; 2422; 2744; 2860; 3148; 3175; 3243; 3960; 3969; 4032; 4041; 4156; 4232; 4291; 4450; 4625; 4639; 5709; 6005; 6372

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HpyF3I	C!TNAG	14	655; 794; 841; 909; 1088; 1639; 1993; 2599; 3879; 4181; 5062; 5511; 5634; 6043
HpyF10VI	GCNNNNN!NNGC	40	90; 212; 244; 283; 376; 400; 621; 752; 1268; 1383; 1462; 1560; 1582; 1640; 1660; 1703; 1759; 2057; 2104; 2378; 2809; 3626; 3656; 3683; 3725; 3966; 4038; 4089; 4168; 4390; 4474; 4497; 4636; 4759; 4842; 5109; 5296; 5500; 5699; 6271
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 1413; 2917; 4399; 5101; 5180
Hsp92II	CATG!	31	304; 364; 602; 1439; 1514; 1622; 1872; 1916; 2153; 2345; 2372; 2378; 2390; 2468; 2534; 2614; 2818; 2825; 3829; 3969; 4041; 4132; 4273; 4618; 4804; 4835; 4861; 5217; 5601; 6321; 6372
HspAI	G!CGC	23	2090; 2812; 3019; 3663; 3671; 3697; 3719; 3728; 3741; 3772; 4391; 4399; 4463; 4500; 4766; 5026; 5202; 5288; 5691; 5800; 5974; 6074; 6141
KasI	G!GCGCC	1	4398
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	2313
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	2	2096; 2316
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	3162
Kzo9I	!GATC	22	585; 1677; 2324; 2854; 2880; 3056; 4236; 4240; 4259; 4570; 4648; 4729; 4738; 4816; 5192; 5208; 5567; 5579; 5657; 5665; 5676; 5751
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	4743; 4953
LpnI	RGC!GCGY	6	2091; 3020; 3664; 3672; 4400; 6075
LpnPI	CCDGNNNNNNNNN!	90	102; 295; 642; 676; 732; 754; 773; 813; 833; 861; 896; 944; 1013; 1059; 1091; 1145; 1165; 1259; 1306; 1350; 1364; 1466; 1504; 1548; 1595; 1643; 1677; 1828; 1848; 1870; 1956; 1995; 2130; 2334; 2472; 2529; 2578; 2611; 2673; 2688; 2737; 2817; 2841; 2865; 2927; 3014; 3136; 3441; 3630; 3853; 3891; 3907; 3947; 4002; 4019; 4119; 4204; 4317; 4394; 4416; 4439; 4575; 4589; 4608; 4665; 4732; 4782; 4798; 4855; 4913; 5122; 5188; 5212; 5288; 5377; 5480; 5513; 5744; 5762; 5908; 5928; 5952; 5978; 6027; 6125; 6170; 6200; 6279; 6304; 6341
LpnPI	!NNNNNNNNNNNNNCHGG	73	75; 268; 552; 606; 648; 688; 726; 996; 1017; 1117; 1156; 1248; 1383; 1428; 1477; 1500; 1530; 1585; 1616; 1650; 1787; 1928; 2095; 2306; 2502; 2550; 2646; 2747; 2790; 2899; 2925; 2998; 3482; 3602; 3659; 3722; 3920; 3932; 3992; 4004; 4236; 4281; 4324; 4366; 4388; 4416; 4463; 4525; 4547; 4637; 4704; 4727; 4771; 4866; 4885; 4910; 5059; 5160; 5203; 5260; 5350; 5453; 5480; 5498; 5734; 5771; 5924; 5950; 6090; 6108; 6143; 6224; 6277
Lsp1109I	GCAGCNNNNNNNN!	17	1027; 1171; 1342; 1370; 1471; 1718; 2050; 2072; 2213; 2551; 2993; 3187; 4472; 4514; 5035; 5488; 5988
Lsp1109I	!NNNNNNNNNNNGCTGC	11	1169; 1737; 2100; 2124; 2670; 3681; 4346; 4530; 4623; 5689; 5895
LweI	GCATCNNNNN!	8	2149; 2578; 3215; 3978; 4050; 4698; 4762; 5037
LweI	!NNNNNNNNNGATGC	8	357; 602; 2731; 2899; 4357; 4612; 4828; 6220
MabI	A!CCWGGT	1	3988
MaeI	C!TAG	10	592; 868; 898; 3054; 3248; 3666; 4222; 5237; 5571; 5824
MaeII	A!CGT	20	122; 134; 175; 258; 339; 444; 714; 946; 1806; 2698; 2926; 2974; 3459; 3471; 3514; 3624; 4515; 4702; 5483; 5616
MaeIII	!GTNAC	17	61; 148; 497; 1127; 1610; 1787; 2621; 2817; 3187; 3688; 3700; 4519; 4825; 5515; 5781; 5897; 5960
MalI	GA!TC	22	587; 1679; 2326; 2856; 2882; 3058; 4238; 4242; 4261; 4572; 4650; 4731; 4740; 4818; 5194; 5210; 5569; 5581; 5659; 5667; 5678; 5753
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	4	157; 240; 426; 1324
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3823; 5012
MbiI	GAG!CGG	4	1697; 3042; 3659; 5066
MboI	!GATC	22	585; 1677; 2324; 2854; 2880; 3056; 4236; 4240; 4259; 4570; 4648; 4729; 4738; 4816; 5192; 5208; 5567; 5579; 5657; 5665; 5676; 5751
MboII	GAAGANNNNNNNN!	9	1245; 1637; 2646; 2759; 3655; 3883; 4760; 4970; 5589
MboII	!NNNNNNNTCTTC	8	1372; 1730; 2036; 2261; 5050; 5217; 5417; 5660

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	3149
MfII	R!GATCY	10	585; 2324; 2880; 4570; 4816; 5208; 5567; 5579; 5665; 5676
MhII	GDGCH!C	21	748; 910; 1281; 1645; 1835; 1943; 2053; 2109; 2284; 2321; 2397; 2424; 2457; 3590; 4345; 4438; 4512; 4702; 4764; 5474; 6007
MIsI	TGG!CCA	2	3000; 4481
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	3000; 4481
MlyI	GAGTCNNNNN!	3	2629; 3451; 3883
MlyI	!NNNNNGACTC	5	404; 3044; 3458; 5064; 5941
Mly113I	GG!CGCC	1	4399
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	3492
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	5924; 6108
MnII	CCTCNNNNNNN!	23	618; 653; 850; 899; 1016; 1032; 1147; 1428; 1746; 2205; 2503; 2572; 2682; 2697; 2780; 2913; 3118; 4182; 5000; 5206; 5520; 5890; 6214
MnII	!NNNNNGAGG	31	541; 671; 758; 929; 1167; 1316; 1661; 1926; 2066; 2384; 2423; 2444; 2477; 2594; 2703; 2759; 2948; 2981; 3024; 3078; 3543; 3874; 4152; 4195; 4210; 4250; 4314; 4450; 4807; 5237; 6140
Mph1103I	ATGCA!T	3	3971; 4043; 6374
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	1452; 3616; 4899; 5182
MroXI	GAANN!NN TTC	1	1864
MscI	TGG!CCA	2	3000; 4481
MseI	T!TAA	19	7; 1429; 1974; 2359; 2584; 3100; 3161; 3282; 3303; 3314; 3326; 3337; 3354; 3452; 3723; 5542; 5556; 5561; 5613
MslI	CAYNN!NNRTG	5	365; 2148; 2343; 2373; 4836
MspI	C!CGG	25	663; 741; 1132; 1453; 1943; 2321; 2331; 2565; 2914; 3617; 4304; 4381; 4403; 4431; 4562; 4652; 4719; 4900; 5175; 5183; 5275; 5749; 5939; 5965; 6112
Msp20I	TGG!CCA	2	3000; 4481
MspA1I	CMG!CKG	8	1502; 2095; 2315; 2793; 3897; 4505; 5734; 5979
MspCI	C!TTAAG	1	3281
MspJI	CNNRRNNNNNNNNN!	328	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; 611; 629; 642; 656; 675; 688; 706; 723; 753; 772; 806; 822; 845; 859; 880; 895; 909; 937; 957; 971; 991; 1004; 1022; 1037; 1058; 1080; 1100; 1118; 1134; 1150; 1163; 1183; 1203; 1218; 1236; 1257; 1271; 1284; 1299; 1328; 1348; 1363; 1378; 1402; 1419; 1435; 1448; 1465; 1481; 1496; 1515; 1543; 1557; 1576; 1589; 1605; 1631; 1650; 1669; 1693; 1710; 1723; 1743; 1759; 1782; 1814; 1827; 1846; 1869; 1895; 1908; 1925; 1954; 1985; 2004; 2022; 2060; 2077; 2097; 2111; 2130; 2143; 2162; 2181; 2208; 2222; 2241; 2254; 2274; 2289; 2304; 2326; 2343; 2363; 2381; 2399; 2429; 2447; 2462; 2477; 2495; 2528; 2543; 2567; 2586; 2610; 2623; 2639; 2657; 2671; 2687; 2700; 2714; 2735; 2748; 2769; 2788; 2802; 2816; 2834; 2847; 2864; 2877; 2891; 2904; 2918; 2939; 2952; 2971; 2990; 3013; 3034; 3059; 3072; 3087; 3106; 3123; 3136; 3177; 3191; 3204; 3222; 3260; 3275; 3293; 3334; 3358; 3378; 3396; 3417; 3440; 3472; 3487; 3509; 3527; 3540; 3561; 3578; 3591; 3604; 3620; 3633; 3663; 3678; 3703; 3721; 3734; 3749; 3773; 3787; 3811; 3836; 3852; 3890; 3906; 3945; 3959; 3973; 4001; 4017; 4031; 4045; 4074; 4087; 4108; 4117; 4139; 4169; 4185; 4203; 4233; 4256; 4280; 4304; 4323; 4351; 4377; 4393; 4406; 4429; 4443; 4463; 4476; 4490; 4509; 4523; 4536; 4552; 4567; 4580; 4596; 4611; 4627; 4652; 4671; 4687; 4700; 4713; 4731; 4745; 4759; 4775; 4797; 4813; 4832; 4854; 4870; 4893; 4912; 4926; 4942; 4956; 4976; 4992; 5005; 5027; 5060; 5074; 5094; 5107; 5121; 5175; 5188; 5211; 5224; 5243; 5260; 5287; 5323; 5356; 5375; 5400; 5421; 5448; 5461; 5478; 5492; 5507; 5523; 5583; 5608; 5624; 5646; 5659; 5673; 5704; 5718; 5743; 5761; 5776; 5789; 5808; 5821; 5836; 5865; 5884; 5902; 5927; 5942; 5961; 5977; 5996; 6014; 6030; 6044; 6063; 6090; 6113; 6135; 6154; 6169; 6182; 6199; 6219; 6246; 6259; 6278; 6303; 6326; 6340; 6353; 6370



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	269	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 595; 615; 642; 689; 706; 727; 746; 768; 786; 806; 828; 854; 877; 896; 913; 931; 951; 986; 1011; 1032; 1064; 1088; 1113; 1138; 1157; 1206; 1224; 1245; 1267; 1285; 1303; 1323; 1341; 1360; 1378; 1408; 1429; 1477; 1497; 1516; 1551; 1568; 1586; 1605; 1624; 1650; 1667; 1684; 1702; 1733; 1752; 1782; 1801; 1821; 1838; 1855; 1884; 1903; 1924; 1954; 1978; 1995; 2032; 2056; 2073; 2090; 2115; 2136; 2155; 2177; 2223; 2258; 2276; 2300; 2317; 2337; 2355; 2373; 2403; 2427; 2445; 2469; 2488; 2510; 2541; 2560; 2584; 2617; 2646; 2688; 2710; 2743; 2763; 2790; 2808; 2825; 2843; 2871; 2892; 2913; 2937; 2959; 2982; 2999; 3025; 3051; 3080; 3109; 3151; 3234; 3269; 3296; 3319; 3348; 3392; 3414; 3446; 3482; 3499; 3520; 3557; 3577; 3594; 3611; 3646; 3664; 3682; 3699; 3723; 3745; 3772; 3800; 3826; 3864; 3885; 3902; 3920; 3943; 3964; 3992; 4015; 4036; 4054; 4075; 4092; 4115; 4139; 4159; 4177; 4199; 4230; 4252; 4278; 4297; 4314; 4342; 4361; 4380; 4398; 4416; 4437; 4459; 4483; 4516; 4536; 4554; 4575; 4601; 4628; 4645; 4662; 4679; 4705; 4727; 4749; 4767; 4787; 4806; 4828; 4866; 4886; 4910; 4930; 4950; 4977; 5001; 5034; 5053; 5081; 5103; 5132; 5160; 5185; 5204; 5223; 5244; 5261; 5278; 5309; 5336; 5356; 5379; 5399; 5436; 5453; 5472; 5498; 5518; 5557; 5584; 5603; 5621; 5658; 5676; 5717; 5735; 5761; 5778; 5810; 5839; 5867; 5888; 5911; 5930; 5951; 5969; 5986; 6004; 6030; 6051; 6071; 6091; 6109; 6130; 6156; 6173; 6192; 6211; 6240; 6259; 6277; 6296; 6314; 6332; 6355
MspR9I	CC!NGG	33	90; 283; 630; 720; 1011; 1047; 1492; 1631; 1665; 1943; 1944; 1953; 2321; 2322; 2517; 2566; 2661; 2676; 2805; 2914; 3935; 3990; 4007; 4403; 4563; 4786; 5176; 5365; 5468; 5940; 6158; 6171; 6292
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	3149
MvaI	CC!WGG	23	90; 283; 630; 720; 1011; 1047; 1492; 1631; 1665; 1953; 2517; 2661; 2676; 2805; 3935; 3990; 4007; 4786; 5365; 5468; 6158; 6171; 6292
Mva1269I	GAATGCN!	2	1061; 3150
Mva1269I	G!CATTC	1	3243
MvnI	CG!CG	17	60; 2095; 2315; 3048; 3323; 3699; 3719; 3743; 3774; 4465; 4766; 5204; 5288; 5351; 5420; 5693; 6274
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	40	90; 212; 244; 283; 376; 400; 621; 752; 1268; 1383; 1462; 1560; 1582; 1640; 1660; 1703; 1759; 2057; 2104; 2378; 2809; 3626; 3656; 3683; 3725; 3966; 4038; 4089; 4168; 4390; 4474; 4497; 4636; 4759; 4842; 5109; 5296; 5500; 5699; 6271
NaeI	GCC!GGC	4	1454; 3618; 4901; 5184
NarI	GG!CGCC	1	4399
NciI	CC!SGG	10	1943; 1944; 2321; 2322; 2566; 2914; 4403; 4563; 5176; 5940
NcoI	C!CATGG	7	360; 598; 1618; 2149; 2341; 4128; 4831
NdeI	CA!TATG	1	234
NdeII	!GATC	22	585; 1677; 2324; 2854; 2880; 3056; 4236; 4240; 4259; 4570; 4648; 4729; 4738; 4816; 5192; 5208; 5567; 5579; 5657; 5665; 5676; 5751
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	2	280; 1925
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	2461
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	2497
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	2	244; 1889
NgoMIV	G!CCGGC	4	1452; 3616; 4899; 5182
NheI	G!CTAGC	1	591
NlaII	CATG!	31	304; 364; 602; 1439; 1514; 1622; 1872; 1916; 2153; 2345; 2372; 2378; 2390; 2468; 2534; 2614; 2818; 2825; 3829; 3969; 4041; 4132; 4273; 4618; 4804; 4835; 4861; 5217; 5601; 6321; 6372
NlaIV	GGN!NCC	26	467; 745; 1580; 1635; 1812; 1989; 2216; 2311; 2319; 2326; 2396; 2456; 2847; 3554; 3575; 3587; 3778; 3939; 4011; 4400; 4435; 5283; 5362; 5407; 6250; 6289
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	5	1138; 2150; 3231; 3546; 5138
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 2721; 3007; 6210
Nii3877I	CYCGR!G	3	1946; 2281; 2324
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	4188; 4624



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmeAIII	!NNNNNNNNNNNNNNNNNNNNCTCGGC	2	2737; 4153
NmeDI	RCCGGYNNNNNNNN!	8	674; 752; 1464; 2342; 3628; 4730; 4911; 5194
NmeDI	!NNNNNNNNNNNNRCCGGY	8	649; 727; 1439; 2317; 3603; 4705; 4886; 5169
NmuCI	!GTSAC	7	1127; 1787; 2621; 2817; 3688; 4519; 4825
NotI	GC!GGCCGC	1	3043
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4501
NsiI	ATGCA!T	3	3971; 4043; 6374
NspI	RCATG!Y	7	1916; 2372; 2818; 3969; 4041; 4804; 6321
NspV	TT!CGAA	2	2291; 5081
OliI	CACNN!NNGTG	1	2343
PabI	GTA!C	13	220; 245; 300; 333; 384; 541; 718; 952; 2312; 2386; 2536; 2788; 4706
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3969; 4041; 4804
PaeR7I	C!TCGAG	1	2277
PagI	T!CATGA	3	1868; 3825; 5597
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1010; 5364; 5467
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	2769; 4220
PciI	A!CATGT	2	1912; 6317
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	4743; 4953
PcsI	WCGNNNN!NNNCGW	7	2983; 4693; 4770; 5013; 5087; 5480; 5998
PctI	GAATGCN!	2	1061; 3150
PctI	G!CATTC	1	3243
PdiI	GCC!GGC	4	1454; 3618; 4901; 5184
PdmI	GAANN!NNTTC	1	1864
PfeI	G!AWTC	8	633; 2470; 2947; 4884; 5018; 5128; 5165; 6343
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	4517
PfIMI	CCANNNN!NTGG	2	1491; 2939
PfoI	T!CCNGGA	4	1045; 1951; 2674; 5174
PhoI	GG!CC	32	84; 277; 768; 829; 1769; 2319; 2491; 2734; 2769; 2803; 2826; 2848; 2958; 3000; 3045; 3365; 3507; 4162; 4168; 4177; 4220; 4307; 4481; 4872; 4899; 5408; 5465; 5498; 5843; 6277; 6295; 6306
PinAI	A!CCGGT	2	662; 2330
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	4780
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	1387; 4345; 4600
PleI	GAGTCNNNN!	3	2628; 3450; 3882
PleI	!NNNNNGACTC	5	404; 3044; 3458; 5064; 5941
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	947
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	1	947
PpiI	GAACNNNNNNCTCNNNNNNNNNNNNNN!	1	3481
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	5611
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	1	5643
PpiI	!NNNNNNNGAACNNNNNNCTC	1	3449
PpsI	GAGTCNNNN!	3	2628; 3450; 3882
PpsI	!NNNNNGACTC	5	404; 3044; 3458; 5064; 5941
Ppu10I	A!TGCAT	3	3967; 4039; 6370
Ppu21I	YAC!GTR	5	340; 715; 947; 3515; 4703
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	2	1912; 6317
PshAI	GACNN!NNGTC	1	2973
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	3182; 3387
PspO3I	GGWC!C	5	1137; 1857; 2933; 4918; 5363
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	23	88; 281; 628; 718; 1009; 1045; 1490; 1629; 1663; 1951; 2515; 2659; 2674; 2803; 3933; 3988; 4005; 4784; 5363; 5466; 6156; 6169; 6290

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	2	1281; 2284
PspCI	CAC!GTG	1	947
PspEI	G!GTNACC	0	
PspGI	!CCWGG	23	88; 281; 628; 718; 1009; 1045; 1490; 1629; 1663; 1951; 2515; 2659; 2674; 2803; 3933; 3988; 4005; 4784; 5363; 5466; 6156; 6169; 6290
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	26	467; 745; 1580; 1635; 1812; 1989; 2216; 2311; 2319; 2326; 2396; 2456; 2847; 3554; 3575; 3587; 3778; 3939; 4011; 4400; 4435; 5283; 5362; 5407; 6250; 6289
PspOMI	G!GGCCC	1	2317
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 4129; 5128
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	4531
PspPI	G!GNCC	18	83; 276; 767; 1134; 1767; 1854; 2318; 2490; 2733; 2825; 2846; 2930; 3506; 4915; 5360; 5406; 5464; 5497
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	6	860; 1096; 1355; 3952; 4024; 5530
PspPRI	!NNNNNNNNNNNNNNCTGRGG	4	1531; 2585; 3865; 5060
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNTACNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNTAC	0	
PssI	RGGNC!CY	2	770; 5500
PstI	CTGCA!G	4	980; 1172; 1528; 2302
PstNI	CAGNNN!CTG	3	1299; 5500; 5908
PsuI	R!GATCY	10	585; 2324; 2880; 4570; 4816; 5208; 5567; 5579; 5665; 5676
PsyI	GACN!NNGTC	1	4517
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1502; 3897; 4505
RcaI	T!CATGA	3	1868; 3825; 5597
RceI	CATCGACNNNNNNNNNNNNNNNN!	1	4914
RceI	!NNNNNNNNNNNNNNNNNGTTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	2	1007; 3128
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	13	219; 244; 299; 332; 383; 540; 717; 951; 2311; 2385; 2535; 2787; 4705
RsaNI	G!TAC	13	218; 243; 298; 331; 382; 539; 716; 950; 2310; 2384; 2534; 2786; 4704
RseI	CAYNN!NNRTG	5	365; 2148; 2343; 2373; 4836
RsrII	CG!GWCCG	1	4915
Rsr2I	CG!GWCCG	1	4915
SacI	GAGCT!C	2	1281; 2284
SacII	CCGC!GG	2	2096; 2316
SalI	G!TCGAC	1	2303
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	4743; 4953
SaqAI	T!TAA	19	7; 1429; 1974; 2359; 2584; 3100; 3161; 3282; 3303; 3314; 3326; 3337; 3354; 3452; 3723; 5542; 5556; 5561; 5613
SatI	GC!NGC	52	753; 1016; 1160; 1163; 1183; 1331; 1359; 1460; 1463; 1707; 1751; 1895; 2039; 2061; 2093; 2096; 2114; 2138; 2202; 2489; 2540; 2684; 2801; 2982; 3046; 3176; 3695; 3717; 3731; 4169; 4308; 4360; 4371; 4461; 4466; 4503; 4544; 4631; 4637; 4873; 4969; 5010; 5024; 5138; 5477; 5492; 5703; 5909; 5912; 5977; 6120; 6275
Sau96I	G!GNCC	18	83; 276; 767; 1134; 1767; 1854; 2318; 2490; 2733; 2825; 2846; 2930; 3506; 4915; 5360; 5406; 5464; 5497

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sau3AI	!GATC	22	585; 1677; 2324; 2854; 2880; 3056; 4236; 4240; 4259; 4570; 4648; 4729; 4738; 4816; 5192; 5208; 5567; 5579; 5657; 5665; 5676; 5751
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	2629; 3451; 3883
SchI	!NNNNNGACTC	5	404; 3044; 3458; 5064; 5941
SciI	CTC!GAG	1	2279
ScrFI	CC!NGG	33	90; 283; 630; 720; 1011; 1047; 1492; 1631; 1665; 1943; 1944; 1953; 2321; 2322; 2517; 2566; 2661; 2676; 2805; 2914; 3935; 3990; 4007; 4403; 4563; 4786; 5176; 5365; 5468; 5940; 6158; 6171; 6292
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	11	746; 995; 1132; 1197; 1691; 2144; 2771; 3977; 4049; 4218; 6160
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	5	1024; 2169; 2250; 4554; 5039
SdeOSI	GACNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	21	748; 910; 1281; 1645; 1835; 1943; 2053; 2109; 2284; 2321; 2397; 2424; 2457; 3590; 4345; 4438; 4512; 4702; 4764; 5474; 6007
SelI	!CGCG	17	58; 2093; 2313; 3046; 3321; 3697; 3717; 3741; 3772; 4463; 4764; 5202; 5286; 5349; 5418; 5691; 6272
SetI	ASST!	98	125; 137; 178; 261; 308; 342; 447; 552; 568; 610; 631; 645; 717; 842; 867; 882; 915; 949; 957; 1008; 1024; 1139; 1167; 1273; 1281; 1327; 1388; 1408; 1467; 1504; 1537; 1609; 1632; 1738; 1809; 1859; 2043; 2077; 2206; 2220; 2284; 2290; 2356; 2383; 2479; 2529; 2550; 2701; 2707; 2836; 2854; 2866; 2905; 2929; 2973; 2977; 2992; 3035; 3089; 3110; 3119; 3131; 3180; 3347; 3462; 3474; 3517; 3554; 3604; 3627; 3751; 3899; 3994; 4187; 4300; 4428; 4507; 4518; 4590; 4661; 4705; 4965; 5111; 5155; 5486; 5517; 5576; 5619; 5762; 5783; 5882; 6019; 6034; 6053; 6065; 6109; 6155; 6206
SexAI	A!CCWGGT	1	3988
SfaI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	2149; 2578; 3215; 3978; 4050; 4698; 4762; 5037
SfaNI	!NNNNNNNNNNNGATGC	8	357; 602; 2731; 2899; 4357; 4612; 4828; 6220
Sfcl	C!TRYAG	7	976; 1168; 1524; 2298; 3734; 5861; 6052
SfiI	GGCCNNNN!NGGCC	1	4174
SfoI	GGC!GCC	1	4400
Sfr274I	C!TCGAG	1	2277
Sfr303I	CCGC!GG	2	2096; 2316
SfuI	TT!CGAA	2	2291; 5081
SgeI	CNNGNNNNNNNNN!	257	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 621; 641; 656; 675; 715; 731; 753; 772; 812; 827; 845; 860; 880; 895; 910; 937; 957; 977; 1012; 1037; 1058; 1090; 1144; 1164; 1183; 1236; 1258; 1271; 1284; 1300; 1329; 1349; 1363; 1378; 1402; 1448; 1465; 1503; 1523; 1547; 1577; 1594; 1612; 1631; 1650; 1676; 1693; 1710; 1759; 1788; 1814; 1827; 1847; 1869; 1910; 1925; 1954; 1994; 2022; 2060; 2084; 2097; 2111; 2129; 2143; 2162; 2181; 2210; 2249; 2289; 2326; 2343; 2363; 2381; 2399; 2429; 2453; 2471; 2486; 2528; 2543; 2567; 2586; 2610; 2623; 2651; 2672; 2687; 2714; 2736; 2769; 2789; 2802; 2816; 2834; 2847; 2864; 2877; 2897; 2918; 2939; 2952; 2990; 3013; 3034; 3059; 3106; 3135; 3177; 3260; 3334; 3418; 3440; 3472; 3509; 3527; 3546; 3561; 3603; 3620; 3637; 3672; 3686; 3703; 3725; 3749; 3773; 3838; 3852; 3890; 3906; 3946; 3959; 3978; 4001; 4018; 4031; 4050; 4080; 4101; 4118; 4141; 4176; 4203; 4234; 4256; 4282; 4304; 4323; 4351; 4387; 4406; 4429; 4443; 4463; 4476; 4490; 4509; 4523; 4542; 4574; 4588; 4601; 4627; 4658; 4671; 4688; 4705; 4719; 4736; 4754; 4769; 4797; 4813; 4832; 4854; 4870; 4893; 4912; 4937; 4956; 4976; 5003; 5027; 5060; 5079; 5107; 5121; 5187; 5211; 5226; 5249; 5270; 5287; 5335; 5362; 5376; 5405; 5429; 5462; 5479; 5499; 5512; 5525; 5583; 5610; 5629; 5659; 5684; 5704; 5718; 5743; 5761; 5798; 5836; 5865; 5893; 5907; 5927; 5942; 5963; 5977; 5996; 6014; 6030; 6070; 6090; 6117; 6135; 6156; 6169; 6182; 6199; 6223; 6246; 6278; 6303; 6330; 6352

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	226	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 595; 615; 649; 689; 706; 727; 746; 786; 806; 834; 854; 884; 911; 931; 951; 986; 1011; 1032; 1064; 1118; 1138; 1157; 1210; 1232; 1249; 1274; 1303; 1323; 1352; 1376; 1422; 1439; 1477; 1497; 1521; 1551; 1568; 1586; 1605; 1624; 1650; 1667; 1684; 1733; 1762; 1788; 1821; 1843; 1884; 1911; 1928; 1968; 1996; 2034; 2058; 2080; 2103; 2136; 2155; 2184; 2223; 2263; 2300; 2317; 2337; 2355; 2373; 2403; 2427; 2445; 2469; 2502; 2541; 2560; 2584; 2625; 2646; 2688; 2710; 2743; 2763; 2790; 2808; 2829; 2851; 2871; 2892; 2913; 2937; 2964; 2987; 3008; 3033; 3080; 3109; 3151; 3234; 3308; 3392; 3414; 3446; 3483; 3501; 3520; 3577; 3594; 3611; 3646; 3664; 3684; 3704; 3723; 3747; 3812; 3864; 3920; 3952; 3975; 3992; 4024; 4054; 4075; 4092; 4115; 4150; 4177; 4208; 4230; 4256; 4278; 4297; 4325; 4361; 4380; 4403; 4424; 4442; 4459; 4483; 4516; 4548; 4575; 4601; 4632; 4662; 4679; 4705; 4728; 4749; 4771; 4791; 4811; 4828; 4867; 4886; 4911; 4930; 4950; 4977; 5001; 5034; 5053; 5081; 5103; 5161; 5185; 5204; 5223; 5244; 5261; 5309; 5336; 5356; 5379; 5403; 5436; 5453; 5473; 5499; 5557; 5584; 5603; 5633; 5658; 5678; 5717; 5735; 5772; 5810; 5839; 5867; 5888; 5916; 5937; 5970; 5988; 6044; 6064; 6091; 6109; 6130; 6156; 6173; 6197; 6220; 6252; 6277; 6304; 6326; 6355
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	740
SgrBI	CCGC!GG	2	2096; 2316
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3546; 5333; 6126
SimI	!GACCC	6	106; 788; 1363; 4827; 5395; 5643
SinI	G!GWCC	5	1134; 1854; 2930; 4915; 5360
SlaI	C!TCGAG	1	2277
SmaI	CCC!GGG	2	1944; 2322
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 2148; 2343; 2373; 4836
SmlI	C!TYRAG	10	2196; 2277; 2283; 2865; 2904; 3281; 4790; 5672; 5949; 6211
SmoI	C!TYRAG	10	2196; 2277; 2283; 2865; 2904; 3281; 4790; 5672; 5949; 6211
SmuI	CCCGCNNNN!	11	93; 119; 286; 757; 2798; 2900; 3721; 4076; 4097; 5293; 5425
SmuI	!NNNNNNGCGGG	8	1690; 2308; 2835; 3652; 4522; 5059; 5197; 5344
SnaBI	TAC!GTA	2	340; 715
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3969; 4041; 4804
SrfI	GCCC!GGGC	1	1944
Sse9I	!AATT	13	18; 1958; 2160; 2293; 3149; 3213; 3291; 3317; 3328; 3975; 4047; 4139; 5557
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	2	2769; 4220
SsiI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 738; 750; 753; 1895; 2093; 2313; 2653; 2791; 2893; 3046; 3714; 3717; 3731; 3821; 4069; 4081; 4090; 4102; 4112; 4123; 4169; 4308; 4371; 4873; 4918; 4984; 5010; 5135; 5138; 5286; 5418; 5725; 5869; 6365
SsiI	G!CGG	33	370; 403; 528; 1211; 1456; 1576; 1697; 2095; 2315; 2488; 2800; 2842; 3042; 3659; 3686; 3774; 3884; 4465; 4529; 4630; 4633; 4913; 4968; 5066; 5204; 5351; 5491; 5734; 5979; 6100; 6119; 6246; 6274
SspI	AAT!ATT	2	3307; 3860
SspDI	G!GCGCC	1	4398
SspD5I	GGTGANNNNNNNN!	8	376; 1337; 1799; 2357; 2726; 3036; 5470; 5586
SspD5I	!NNNNNNNNNTCACC	4	2156; 2614; 3515; 4576
SstI	GAGCT!C	2	1281; 2284
SstII	CCGC!GG	2	2096; 2316
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	2659
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	25	92; 118; 285; 756; 932; 1373; 1949; 2176; 2327; 2581; 2797; 2899; 2920; 3598; 3720; 4075; 4096; 4409; 4812; 4951; 5022; 5292; 5424; 5654; 6092
Sth132I	!NNNNNNNNCNGGG	28	15; 407; 470; 896; 1689; 1935; 2001; 2048; 2122; 2307; 2557; 2630; 2834; 3599; 3651; 3752; 4479; 4521; 4554; 5058; 5167; 5196; 5343; 5447; 5478; 5931; 5975; 6183

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sth302II	CC!GG	25	664; 742; 1133; 1454; 1944; 2322; 2332; 2566; 2915; 3618; 4305; 4382; 4404; 4432; 4563; 4653; 4720; 4901; 5176; 5184; 5276; 5750; 5940; 5966; 6113
StrI	C!TCGAG	1	2277
StsI	GGATGNNNNNNNNNN!	8	1279; 1414; 1714; 1891; 4267; 4724; 4749; 5203
StsI	!NNNNNNNNNNNNNNCATCC	6	1133; 1459; 2410; 2498; 2555; 4071
StuI	AGG!CCT	2	2769; 4220
StyI	C!CWWGG	11	360; 598; 1316; 1564; 1618; 2149; 2341; 4128; 4221; 4831; 5236
StyD4I	!CCNGG	33	88; 281; 628; 718; 1009; 1045; 1490; 1629; 1663; 1941; 1942; 1951; 2319; 2320; 2515; 2564; 2659; 2674; 2803; 2912; 3933; 3988; 4005; 4401; 4561; 4784; 5174; 5363; 5466; 5938; 6156; 6169; 6290
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	21	76; 198; 269; 543; 581; 782; 1310; 1559; 1716; 2026; 2247; 2309; 2399; 3490; 4779; 4895; 5003; 5326; 5817; 6287; 6358
TaiI	ACGT!	20	125; 137; 178; 261; 342; 447; 717; 949; 1809; 2701; 2929; 2977; 3462; 3474; 3517; 3627; 4518; 4705; 5486; 5619
TaqI	T!CGA	19	610; 2047; 2278; 2291; 2304; 2482; 2509; 2977; 3548; 4239; 4512; 4668; 4692; 4728; 4890; 5081; 5126; 5381; 6219
TaqII	GACCGANNNNNNNNNN!	3	3419; 4436; 5104
TaqII	!NNNNNNNNNTCGGTC	1	5348
TaqII	CACCCANNNNNNNNNN!	2	1671; 2472
TaqII	!NNNNNNNNNTGGGTG	3	172; 4303; 4895
TasI	!AATT	13	18; 1958; 2160; 2293; 3149; 3213; 3291; 3317; 3328; 3975; 4047; 4139; 5557
TatI	W!GTACW	6	217; 297; 330; 381; 949; 2383
TauI	GCSG!C	23	755; 1459; 1897; 2095; 2098; 2491; 2803; 3048; 3719; 3733; 4171; 4310; 4373; 4468; 4633; 4636; 4875; 4971; 5012; 5140; 5494; 6122; 6277
TfiI	G!AWTC	8	633; 2470; 2947; 4884; 5018; 5128; 5165; 6343
TliI	C!TCGAG	1	2277
Tru1I	T!TAA	19	7; 1429; 1974; 2359; 2584; 3100; 3161; 3282; 3303; 3314; 3326; 3337; 3354; 3452; 3723; 5542; 5556; 5561; 5613
Tru9I	T!TAA	19	7; 1429; 1974; 2359; 2584; 3100; 3161; 3282; 3303; 3314; 3326; 3337; 3354; 3452; 3723; 5542; 5556; 5561; 5613
TscAI	CASTGNN!	17	767; 785; 807; 890; 938; 1085; 1123; 1253; 1313; 1665; 1842; 2150; 3245; 4528; 5638; 5909; 5922
TseI	G!CWGC	31	1015; 1159; 1162; 1182; 1330; 1358; 1459; 1462; 1706; 1750; 2038; 2060; 2113; 2137; 2201; 2539; 2683; 2981; 3175; 3694; 4359; 4460; 4502; 4543; 4636; 5023; 5476; 5702; 5908; 5911; 5976
TsoI	TARCCANNNNNNNNNN!	2	3371; 3718
TsoI	!NNNNNNNNNTGGYTA	3	2508; 3176; 4928
Tsp45I	!GTSAC	7	1127; 1787; 2621; 2817; 3688; 4519; 4825
Tsp509I	!AATT	13	18; 1958; 2160; 2293; 3149; 3213; 3291; 3317; 3328; 3975; 4047; 4139; 5557
TspDTI	ATGAANNNNNNNNNN!	5	1111; 2391; 3157; 4458; 5162
TspDTI	!NNNNNNNNNTTCAT	9	26; 1424; 1857; 2018; 2519; 2540; 4876; 5332; 5539
TspEI	!AATT	13	18; 1958; 2160; 2293; 3149; 3213; 3291; 3317; 3328; 3975; 4047; 4139; 5557
TspGWI	ACGGANNNNNNNNNN!	2	1697; 5274
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	2	1942; 2320
TspRI	CASTGNN!	17	767; 785; 807; 890; 938; 1085; 1123; 1253; 1313; 1665; 1842; 2150; 3245; 4528; 5638; 5909; 5922
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	1	1791
TstI	GGANNNNNGTGNNNNNNNNNN!	1	1823
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4517
Tth111II	CAARCAANNNNNNNNNN!	4	977; 2214; 2571; 5726
Tth111II	!NNNNNNNNNTGYTTG	4	1905; 4834; 5694; 5733
UnbI	!GGNCC	18	82; 275; 766; 1133; 1766; 1853; 2317; 2489; 2732; 2824; 2845; 2929; 3505; 4914; 5359; 5405; 5463; 5496
Van91I	CCANNNN!NTGG	2	1491; 2939
Vha464I	C!TTAAG	1	3281

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
VneI	G!TGCAC	2	2420; 6003
VpaK11AI	!GGWCC	5	1133; 1853; 2929; 4914; 5359
VpaK11BI	G!GWCC	5	1134; 1854; 2930; 4915; 5360
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	5	2160; 2293; 3213; 3317; 3328
XbaI	T!CTAGA	1	3053
XceI	RCATG!Y	7	1916; 2372; 2818; 3969; 4041; 4804; 6321
XcmI	CCANNNNN!NNNNTGG	2	1007; 1671
XhoI	C!TCGAG	1	2277
XhoII	R!GATCY	10	585; 2324; 2880; 4570; 4816; 5208; 5567; 5579; 5665; 5676
XmaI	C!CCGGG	2	1942; 2320
XmaJI	C!CTAGG	2	4221; 5236
XmiI	GT!MKAC	2	2304; 2920
XmnI	GAANN!NNTTC	1	1864
XspI	C!TAG	10	592; 868; 898; 3054; 3248; 3666; 4222; 5237; 5571; 5824
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3971; 4043; 6374