

pTagRFP-Cx32 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2421; 2626
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2709; 3665; 5454
AatI	AGG!CCT	1	3459
AatII	GACGT!C	5	125; 178; 261; 447; 1205
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	1205; 2153
AccII	CG!CG	16	60; 1546; 2287; 2562; 2938; 2958; 2982; 3013; 3704; 4005; 4443; 4527; 4590; 4659; 4932; 5513
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	3740
Acc36I	ACCTGCNNNN!	2	3906; 4356
Acc36I	!NNNNNNNNGCAGGT	1	3525
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	7	465; 1498; 1627; 1687; 2791; 3637; 3672
AccB7I	CCANNNN!NTGG	1	2172
AccBSI	CCG!CTC	3	1367; 3062; 4251
AccBSI	GAG!CGG	3	2281; 2898; 4305
AceIII	CAGCTCNNNNNNN!	3	946; 968; 2594
AceIII	!NNNNNNNNNNGAGCTG	2	552; 1573
AciI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 1242; 1350; 1365; 1383; 1407; 1488; 1530; 1886; 2024; 2126; 2285; 2953; 2956; 2970; 3060; 3308; 3320; 3329; 3341; 3351; 3362; 3408; 3547; 3610; 4112; 4157; 4223; 4249; 4374; 4377; 4525; 4657; 4964; 5108; 5604
AciI	G!CGG	30	370; 403; 528; 918; 1185; 1546; 1721; 2033; 2075; 2281; 2898; 2925; 3013; 3123; 3704; 3768; 3869; 3872; 4152; 4207; 4305; 4443; 4590; 4730; 4973; 5218; 5339; 5358; 5485; 5513
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	1556; 3506; 3817; 4063; 4455; 4814; 4912; 4998
AclWI	!NNNNNGATCC	7	580; 1543; 2108; 3882; 4426; 4813; 4910
AcoI	Y!GGCCR	10	756; 968; 1313; 1401; 2231; 2282; 3544; 3718; 4109; 4136
AcsI	R!AATY	4	629; 2452; 2556; 2567
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	2083; 3784; 4216
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	771; 5014
AcvI	CAC!GTG	1	978
AcyI	GR!CGYC	9	122; 175; 258; 444; 1202; 2150; 3638; 4340; 4419
AdeI	CACNNN!GTG	2	2223; 2754
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 715; 1327; 1618; 1768; 2020; 3944
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	27	49; 917; 1044; 1184; 1311; 1501; 1536; 1684; 1797; 1963; 2029; 2172; 2650; 2976; 3368; 3619; 4163; 4444; 4476; 4608; 4643; 4693; 4725; 5078; 5357; 5523; 5541
AfIII	C!TTAAG	1	2520
AfIII	A!CRYGT	1	5556
AgeI	A!CCGGT	1	1554
AgsI	TTS!AA	7	1650; 2100; 3049; 3093; 3103; 3516; 5092
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	21	88; 281; 657; 867; 1043; 1167; 1494; 1748; 1796; 1892; 1907; 2036; 3172; 3227; 3244; 4023; 4602; 4705; 5395; 5408; 5529
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	1089; 1567
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	3	764; 3212; 3284
AlfI	!NNNNNNNNNNGCANNNNNTGC	3	730; 3178; 3250
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	1974; 2720
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	2	1942; 2688
AluI	AG!CT	22	566; 618; 624; 936; 958; 1282; 1446; 1587; 1614; 1760; 2067; 2417; 2584; 2841; 3136; 3424; 3744; 4202; 4999; 5256; 5302; 5392
AluBI	AG!CT	22	566; 618; 624; 936; 958; 1282; 1446; 1587; 1614; 1760; 2067; 2417; 2584; 2841; 3136; 3424; 3744; 4202; 4999; 5256; 5302; 5392
AlwI	GGATCNNNN!	8	1556; 3506; 3817; 4063; 4455; 4814; 4912; 4998
AlwI	!NNNNNGATCC	7	580; 1543; 2108; 3882; 4426; 4813; 4910
Alw21I	GWGCW!C	5	620; 1657; 3751; 3941; 5246
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	2194; 3062; 3480; 4499; 4627
Alw44I	G!TGCAC	2	1653; 5242
AlwNI	CAGNNN!CTG	3	2240; 4739; 5147
Ama87I	C!YCGRG	2	613; 1392
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	3206; 3278; 4740
ApaLI	G!TGCAC	2	1653; 5242
ApeKI	G!CWGC	26	648; 651; 654; 811; 872; 933; 1282; 1446; 1490; 1532; 1772; 1916; 2214; 2414; 2933; 3598; 3699; 3741; 3782; 3875; 4262; 4715; 4941; 5147; 5150; 5215
ApoI	R!AATTY	4	629; 2452; 2556; 2567
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	4153
ApyPI	!NNNNNNNNNNNNNNNNNNGTCGAT	3	3947; 4600; 5438
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	4037
AquII	!NNNNNNNNNNNNNNNNNNGTNCGGC	3	897; 1164; 1748
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1073; 3466
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	1	942
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	2	882; 4208
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	24	586; 610; 1437; 1549; 1938; 2088; 2114; 2296; 3476; 3480; 3499; 3810; 3888; 3969; 3978; 4056; 4432; 4448; 4807; 4819; 4897; 4905; 4916; 4991
AsiGI	A!CCGGT	1	1554
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3756
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3460; 4475
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	24	597; 1364; 1487; 1546; 2904; 2912; 2938; 2960; 2969; 2982; 3013; 3632; 3640; 3704; 3741; 4007; 4267; 4443; 4529; 4932; 5041; 5215; 5315; 5382
AspS9I	G!GNCC	19	83; 276; 926; 1023; 1032; 1068; 1094; 1340; 1723; 1966; 2058; 2079; 2163; 2745; 4154; 4599; 4645; 4703; 4736
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 4320
AsuC2I	CC!SGG	7	1339; 1503; 2147; 3642; 3802; 4415; 5179
AsuHPI	GGTGANNNNNNNN!	6	376; 841; 1065; 1959; 4709; 4825
AsuHPI	!NNNNNNNTCACC	6	976; 1257; 1406; 1848; 2755; 3816
AsuNHI	G!CTAGC	2	591; 1278

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AvaI	C!YCGRG	2	613; 1392
AvaII	G!GWCC	7	926; 1032; 1068; 1094; 2163; 4154; 4599
AviII	TGC!GCA	1	3740
AvrII	C!CTAGG	2	3460; 4475
AxyI	CC!TNAGG	3	1832; 3118; 4750
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	1350; 1630; 1657; 1690; 2267; 3584; 3677; 5246
BalI	TGG!CCA	3	970; 2233; 3720
BamHI	G!GATCC	1	1548
BanI	G!GYRCC	7	465; 1498; 1627; 1687; 2791; 3637; 3672
BanII	GRGCY!C	6	620; 1359; 1393; 2829; 4003; 4713
BanIII	AT!CGAT	1	3478
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	2172
BauI	C!ACGAG	3	2218; 4356; 5383
BauI	C!TCGTG	3	964; 2068; 4230
BbeI	GGCGC!C	1	3641
Bbr7I	GAAGACNNNNNN!	1	1879
Bbr7I	!NNNNNNNNNNGTCTTC	2	1126; 1249
BbrPI	CAC!GTG	1	978
BbsI	GAAGACNN!	1	1874
BbsI	!NNNNNGTCTTC	2	1131; 1254
BbuI	GCATG!C	3	3208; 3280; 4043
BbvI	GCAGCNNNNNNN!	11	660; 945; 1502; 1784; 2226; 2426; 3711; 3753; 4274; 4727; 5227
BbvI	!NNNNNNNNNNGCTGC	12	798; 859; 1269; 1433; 1519; 1903; 2920; 3585; 3769; 3862; 4928; 5134
Bbv12I	GWGCW!C	5	620; 1657; 3751; 3941; 5246
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	913; 1965; 2768; 3332; 3858; 4360
BccI	!NNNNNGATGG	4	1456; 2736; 3516; 3944
BceAI	ACGGCNNNNNNNNNN!	7	1030; 1785; 1929; 1980; 2046; 4064; 4551
BceAI	!NNNNNNNNNNGCCGT	4	1120; 2779; 3597; 5056
BceFI	ACGGCNNNNNNNNNN!	7	1030; 1785; 1929; 1980; 2046; 4064; 4551
BceFI	!NNNNNNNNNNGCCGT	4	1121; 2780; 3598; 5057
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	3067; 3857; 5358
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	7	1339; 1503; 2147; 3642; 3802; 4415; 5179
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	5491
BdaI	!NNNNNNNNNTGANNNNNTCA	1	5457
BfaI	C!TAG	11	592; 943; 1279; 2252; 2293; 2487; 2905; 3461; 4476; 4810; 5063
BfiI	ACTGGGNNNNN!	2	2269; 3587
BfiI	!NNNNCCCAGT	2	289; 3339
BfmI	C!TRYAG	5	812; 931; 2973; 5100; 5291
BfoI	RGCGC!Y	6	598; 1365; 2905; 2913; 3641; 5316
BfrI	C!TTAAG	1	2520
BfuI	GTATCCNNNNN!	3	3067; 3857; 5358
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3906; 4356
BfuAI	!NNNNNNNNGCAGGT	1	3525

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BfuCI	!GATC	24	585; 609; 1436; 1548; 1937; 2087; 2113; 2295; 3475; 3479; 3498; 3809; 3887; 3968; 3977; 4055; 4431; 4447; 4806; 4818; 4896; 4904; 4915; 4990
BglI	GCCNNNN!NGGC	5	90; 212; 283; 2042; 3413
BglII	A!GATCT	1	609
BisI	GC!NGC	47	649; 652; 655; 812; 873; 919; 934; 1186; 1283; 1365; 1447; 1491; 1533; 1722; 1773; 1917; 2034; 2215; 2282; 2285; 2415; 2934; 2956; 2970; 3408; 3547; 3599; 3610; 3700; 3705; 3742; 3783; 3870; 3876; 4112; 4208; 4249; 4263; 4377; 4716; 4731; 4942; 5148; 5151; 5216; 5359; 5514
BlnI	C!CTAGG	2	3460; 4475
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	47	650; 653; 656; 813; 874; 920; 935; 1187; 1284; 1366; 1448; 1492; 1534; 1723; 1774; 1918; 2035; 2216; 2283; 2286; 2416; 2935; 2957; 2971; 3409; 3548; 3600; 3611; 3701; 3706; 3743; 3784; 3871; 3877; 4113; 4209; 4250; 4264; 4378; 4717; 4732; 4943; 5149; 5152; 5217; 5360; 5515
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	7	926; 1032; 1068; 1094; 2163; 4154; 4599
Bme1390I	CC!NGG	28	90; 283; 659; 869; 1045; 1169; 1339; 1496; 1503; 1750; 1798; 1894; 1909; 2038; 2147; 3174; 3229; 3246; 3642; 3802; 4025; 4415; 4604; 4707; 5179; 5397; 5410; 5531
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	613; 1392
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	19	84; 277; 927; 1024; 1033; 1069; 1095; 1341; 1724; 1967; 2059; 2080; 2164; 2746; 4155; 4600; 4646; 4704; 4737
BmiI	GGN!NCC	22	467; 928; 1033; 1467; 1500; 1550; 1629; 1689; 2080; 2793; 2814; 2826; 3017; 3178; 3250; 3639; 3674; 4522; 4601; 4646; 5489; 5528
BmrI	ACTGGGNNNNN!	2	2269; 3587
BmrI	!NNNNCCCAGT	2	289; 3339
BmrFI	CC!NGG	28	90; 283; 659; 869; 1045; 1169; 1339; 1496; 1503; 1750; 1798; 1894; 1909; 2038; 2147; 3174; 3229; 3246; 3642; 3802; 4025; 4415; 4604; 4707; 5179; 5397; 5410; 5531
BmsI	GCATCNNNNN!	8	1301; 1811; 2454; 3217; 3289; 3937; 4001; 4276
BmsI	!NNNNNNNNNGATGC	8	357; 1964; 2003; 2132; 3596; 3851; 4067; 5459
BmtI	GCTAG!C	2	595; 1282
BmuI	ACTGGGNNNNN!	2	2269; 3587
BmuI	!NNNNCCCAGT	2	289; 3339
BoxI	GACNN!NNGTC	2	1099; 2206
BpiI	GAAGACNN!	1	1874
BpiI	!NNNNNNGTCTTC	2	1131; 1254
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	3	784; 3427; 4326
BpI	!NNNNNNNNGAGNNNNNCTC	3	752; 3395; 4294
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	1066; 4478
BpmI	!NNNNNNNNNNNNNNNCTCCAG	3	847; 1891; 4421
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4320
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	1874
BpuAI	!NNNNNNGTCTTC	2	1131; 1254
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	1039; 4932; 5471
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	604; 2122; 4014; 5173
BpuMI	CC!SGG	7	1339; 1503; 2147; 3642; 3802; 4415; 5179
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	2194; 4627
Bsa29I	AT!CGAT	1	3478
BsaAI	YAC!GTR	4	340; 978; 2754; 3942
BsaBI	GATNN!NNATC	2	2300; 3497
BsaHI	GR!CGYC	9	122; 175; 258; 444; 1202; 2150; 3638; 4340; 4419
BsaJI	C!CNNGG	26	360; 1026; 1167; 1178; 1316; 1494; 1502; 1565; 1661; 1796; 1797; 1892; 3172; 3244; 3367; 3402; 3411; 3460; 3801; 4070; 4475; 4602; 4603; 4705; 4706; 5396

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BsaMI	GAATGCN!	1	2389
BsaMI	G!CATTC	2	741; 2482
BsaWI	W!CCGGW	6	600; 1554; 3669; 4513; 5203; 5350
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2718
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2688
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	4	881; 1017; 1244; 2030
BsbI	!NNNNNNNNNNNNNNNNNGTGTTG	2	2639; 4546
Bsc4I	CCNNNNN!NNGG	27	49; 917; 1044; 1184; 1311; 1501; 1536; 1684; 1797; 1963; 2029; 2172; 2650; 2976; 3368; 3619; 4163; 4444; 4476; 4608; 4643; 4693; 4725; 5078; 5357; 5523; 5541
BscAI	GCATCNNNN!	8	1300; 1810; 2453; 3216; 3288; 3936; 4000; 4275
BscAI	!NNNNNNNGATGC	8	360; 1967; 2006; 2135; 3599; 3854; 4070; 5462
BseI	ACTGGN!	6	706; 2177; 2264; 3582; 3783; 5029
BseI	C!CAGT	5	295; 2667; 3345; 5141; 5154
Bse8I	GATNN!NNATC	2	2300; 3497
Bse21I	CC!TNAGG	3	1832; 3118; 4750
Bse118I	R!CCGGY	6	737; 1554; 2855; 3957; 4138; 4421
BseAI	T!CCGGA	0	
BseBI	CC!WGG	21	90; 283; 659; 869; 1045; 1169; 1496; 1750; 1798; 1894; 1909; 2038; 3174; 3229; 3246; 4025; 4604; 4707; 5397; 5410; 5531
BseCI	AT!CGAT	1	3478
BseDI	C!CNNGG	26	360; 1026; 1167; 1178; 1316; 1494; 1502; 1565; 1661; 1796; 1797; 1892; 3172; 3244; 3367; 3402; 3411; 3460; 3801; 4070; 4475; 4602; 4603; 4705; 4706; 5396
Bse3DI	GCAATGNN!	1	3871
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	6	701; 1467; 3498; 3955; 3980; 4434
BseGI	!CATCC	8	938; 1301; 1334; 1657; 1745; 1802; 1957; 3324
BseJI	GATNN!NNATC	2	2300; 3497
BseLI	CCNNNNN!NNGG	27	49; 917; 1044; 1184; 1311; 1501; 1536; 1684; 1797; 1963; 2029; 2172; 2650; 2976; 3368; 3619; 4163; 4444; 4476; 4608; 4643; 4693; 4725; 5078; 5357; 5523; 5541
BseMI	GCAATGNN!	1	3871
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	4	620; 738; 1091; 4764
BseMII	!NNNNNNNNNCTGAG	7	1441; 1823; 3109; 3411; 4292; 4864; 5273
BseNI	ACTGGN!	6	706; 2177; 2264; 3582; 3783; 5029
BseNI	C!CAGT	5	295; 2667; 3345; 5141; 5154
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1063; 3456
BseRI	!NNNNNNNNNCTCCTC	1	952
BseSI	GKGCN!C	8	1350; 1630; 1657; 1690; 2267; 3584; 3677; 5246
BseXI	GCAGCNNNNNNNN!	11	660; 945; 1502; 1784; 2226; 2426; 3711; 3753; 4274; 4727; 5227
BseXI	!NNNNNNNNNNNGCTGC	12	798; 859; 1269; 1433; 1519; 1903; 2920; 3585; 3769; 3862; 4928; 5134
BseX3I	C!GGCCG	2	2282; 3544
BseYI	C!CCAGC	5	954; 1358; 3181; 3253; 5252
BseYI	G!CTGGG	3	1507; 1994; 4142
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	16	60; 1546; 2287; 2562; 2938; 2958; 2982; 3013; 3704; 4005; 4443; 4527; 4590; 4659; 4932; 5513
Bsh1285I	CGRY!CG	5	1530; 1559; 2285; 3547; 5222
BshFI	GG!CC	36	84; 277; 758; 970; 1025; 1135; 1315; 1342; 1403; 1540; 1724; 1967; 2002; 2036; 2059; 2081; 2191; 2233; 2284; 2604; 2746; 3401; 3407; 3416; 3459; 3546; 3720; 4111; 4138; 4647; 4704; 4737; 5082; 5516; 5534; 5545
BshNI	G!GYRCC	7	465; 1498; 1627; 1687; 2791; 3637; 3672
BshTI	A!CCGGT	1	1554
BshVI	AT!CGAT	1	3478
BsiEI	CGRY!CG	5	1530; 1559; 2285; 3547; 5222
BsiHKAI	GWGCW!C	5	620; 1657; 3751; 3941; 5246
BsiHKCI	C!YCGRG	2	613; 1392

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BsiSI	C!CGG	23	601; 738; 1119; 1338; 1502; 1555; 2147; 2856; 3543; 3620; 3642; 3670; 3801; 3891; 3958; 4139; 4414; 4422; 4514; 4988; 5178; 5204; 5351
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	27	49; 917; 1044; 1184; 1311; 1501; 1536; 1684; 1797; 1963; 2029; 2172; 2650; 2976; 3368; 3619; 4163; 4444; 4476; 4608; 4643; 4693; 4725; 5078; 5357; 5523; 5541
BsIF1	GGGACNNNNNNNNNN!	8	175; 326; 494; 1045; 1095; 3789; 4321; 4430
BsIF1	!NNNNNNNNNNNNNGTCCC	6	912; 1224; 3154; 3226; 3290; 4585
BsmI	GAATGCN!	1	2389
BsmI	G!CATTC	2	741; 2482
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	2194; 3062; 3480; 4499; 4627
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1045; 1095; 3789; 4321; 4430
BsmFI	!NNNNNNNNNNNNNGTCCC	6	912; 1224; 3154; 3226; 3290; 4585
BsnI	GG!CC	36	84; 277; 758; 970; 1025; 1135; 1315; 1342; 1403; 1540; 1724; 1967; 2002; 2036; 2059; 2081; 2191; 2233; 2284; 2604; 2746; 3401; 3407; 3416; 3459; 3546; 3720; 4111; 4138; 4647; 4704; 4737; 5082; 5516; 5534; 5545
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	2194; 4627
BsoBI	C!YCGRG	2	613; 1392
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	6	360; 1026; 1178; 1565; 3367; 4070
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4441
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	4862; 5040
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4894; 5072
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 4409
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4320
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	24	585; 609; 1436; 1548; 1937; 2087; 2113; 2295; 3475; 3479; 3498; 3809; 3887; 3968; 3977; 4055; 4431; 4447; 4806; 4818; 4896; 4904; 4915; 4990
Bsp1286I	GDGCH!C	16	620; 1350; 1359; 1393; 1630; 1657; 1690; 2267; 2829; 3584; 3677; 3751; 3941; 4003; 4713; 5246
Bsp1407I	T!GTACA	2	713; 1616
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 1242; 1350; 1365; 1383; 1407; 1488; 1530; 1886; 2024; 2126; 2285; 2953; 2956; 2970; 3060; 3308; 3320; 3329; 3341; 3351; 3362; 3408; 3547; 3610; 4112; 4157; 4223; 4249; 4374; 4377; 4525; 4657; 4964; 5108; 5604
BspACI	G!CGG	30	370; 403; 528; 918; 1185; 1546; 1721; 2033; 2075; 2281; 2898; 2925; 3013; 3123; 3704; 3768; 3869; 3872; 4152; 4207; 4305; 4443; 4590; 4730; 4973; 5218; 5339; 5358; 5485; 5513
BspCNI	CTCAGNNNNNNNN!	4	619; 737; 1090; 4763
BspCNI	!NNNNNNNCTGAG	7	1442; 1824; 3110; 3412; 4293; 4865; 5274
BspDI	AT!CGAT	1	3478
BspD6I	GACTCNNNN!	6	418; 612; 2297; 2711; 4317; 5194
BspD6I	!NNNNNGAGTC	3	1846; 2674; 3106
BspEI	T!CCGGA	0	
BspFNI	CG!CG	16	60; 1546; 2287; 2562; 2938; 2958; 2982; 3013; 3704; 4005; 4443; 4527; 4590; 4659; 4932; 5513
BspHI	T!CATGA	2	3064; 4836
BspLI	GGN!NCC	22	467; 928; 1033; 1467; 1500; 1550; 1629; 1689; 2080; 2793; 2814; 2826; 3017; 3178; 3250; 3639; 3674; 4522; 4601; 4646; 5489; 5528
BspMI	ACCTGCNNNN!	2	3906; 4356
BspMI	!NNNNNNNGCAGGT	1	3525
BspOI	GCTAG!C	2	595; 1282
BspPI	GGATCNNNN!	8	1556; 3506; 3817; 4063; 4455; 4814; 4912; 4998
BspPI	!NNNNNGATCC	7	580; 1543; 2108; 3882; 4426; 4813; 4910
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	1577; 3982; 4192
BspTI	C!TTAAG	1	2520

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspT104I	TT!CGAA	2	627; 4320
BspT107I	G!GYRCC	7	465; 1498; 1627; 1687; 2791; 3637; 3672
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	2194; 4627
BsrI	ACTGGN!	6	706; 2177; 2264; 3582; 3783; 5029
BsrI	C!CAGT	5	295; 2667; 3345; 5141; 5154
BsrBI	CCG!CTC	3	1367; 3062; 4251
BsrBI	GAG!CGG	3	2281; 2898; 4305
BsrDI	GCAATGNN!	1	3871
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	737; 1554; 2855; 3957; 4138; 4421
BsrGI	T!GTACA	2	713; 1616
BsrSI	ACTGGN!	6	706; 2177; 2264; 3582; 3783; 5029
BsrSI	C!CAGT	5	295; 2667; 3345; 5141; 5154
BssAI	R!CCGGY	6	737; 1554; 2855; 3957; 4138; 4421
BssECI	C!CNNGG	26	360; 1026; 1167; 1178; 1316; 1494; 1502; 1565; 1661; 1796; 1797; 1892; 3172; 3244; 3367; 3402; 3411; 3460; 3801; 4070; 4475; 4602; 4603; 4705; 4706; 5396
BssHII	G!CGCGC	0	
BssKI	!CCNGG	28	88; 281; 657; 867; 1043; 1167; 1337; 1494; 1501; 1748; 1796; 1892; 1907; 2036; 2145; 3172; 3227; 3244; 3640; 3800; 4023; 4413; 4602; 4705; 5177; 5395; 5408; 5529
BssMI	!GATC	24	585; 609; 1436; 1548; 1937; 2087; 2113; 2295; 3475; 3479; 3498; 3809; 3887; 3968; 3977; 4055; 4431; 4447; 4806; 4818; 4896; 4904; 4915; 4990
BssNI	GR!CGYC	9	122; 175; 258; 444; 1202; 2150; 3638; 4340; 4419
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	2218; 4356; 5383
BssSI	C!TCGTG	3	964; 2068; 4230
BssTII	C!CWWGG	8	360; 1026; 1178; 1565; 3367; 3460; 4070; 4475
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	5	1051; 1577; 3105; 3982; 4192
Bst98I	C!TTAAG	1	2520
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 1202; 2150; 3638; 4340; 4419
BstAFI	C!TTAAG	1	2520
BstAPI	GCANNN!NTGC	3	3205; 3277; 4739
BstAUI	T!GTACA	2	713; 1616
BstBI	TT!CGAA	2	627; 4320
Bst2BI	C!ACGAG	3	2218; 4356; 5383
Bst2BI	C!TCGTG	3	964; 2068; 4230
BstBAI	YAC!GTR	4	340; 978; 2754; 3942
Bst4CI	ACN!GT	18	76; 198; 269; 543; 581; 1088; 1224; 1260; 1269; 1632; 2729; 4018; 4134; 4242; 4565; 5056; 5526; 5597
BstC8I	GCN!NGC	33	86; 279; 593; 1280; 1350; 1514; 1542; 1675; 1879; 2857; 2900; 2914; 3187; 3206; 3259; 3278; 3532; 3718; 3937; 4003; 4009; 4041; 4082; 4086; 4140; 4423; 4610; 4657; 4713; 4735; 4946; 5506; 5543
BstDEI	C!TNAG	13	606; 724; 1077; 1450; 1574; 1832; 2129; 3118; 3420; 4301; 4750; 4873; 5282
BstDSI	C!CRYGG	6	360; 1026; 1178; 1565; 3367; 4070
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	1	1048
BstF5I	GGATGNN!	6	701; 1467; 3498; 3955; 3980; 4434
BstF5I	!CATCC	8	938; 1301; 1334; 1657; 1745; 1802; 1957; 3324
BstFNI	CG!CG	16	60; 1546; 2287; 2562; 2938; 2958; 2982; 3013; 3704; 4005; 4443; 4527; 4590; 4659; 4932; 5513
BstH2I	RGCGC!Y	6	598; 1365; 2905; 2913; 3641; 5316
BstHHI	GCG!C	24	597; 1364; 1487; 1546; 2904; 2912; 2938; 2960; 2969; 2982; 3013; 3632; 3640; 3704; 3741; 4007; 4267; 4443; 4529; 4932; 5041; 5215; 5315; 5382
BstKTI	GAT!C	24	588; 612; 1439; 1551; 1940; 2090; 2116; 2298; 3478; 3482; 3501; 3812; 3890; 3971; 3980; 4058; 4434; 4450; 4809; 4821; 4899; 4907; 4918; 4993
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	5	2194; 3062; 3480; 4499; 4627

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstMBI	!GATC	24	585; 609; 1436; 1548; 1937; 2087; 2113; 2295; 3475; 3479; 3498; 3809; 3887; 3968; 3977; 4055; 4431; 4447; 4806; 4818; 4896; 4904; 4915; 4990
BstMCI	CGRY!CG	5	1530; 1559; 2285; 3547; 5222
BstMWI	GCNNNNN!NNGC	34	90; 212; 244; 283; 376; 400; 654; 878; 1354; 1455; 1496; 1513; 1532; 1611; 2042; 2865; 2895; 2922; 2964; 3205; 3277; 3328; 3407; 3629; 3713; 3736; 3875; 3998; 4081; 4348; 4535; 4739; 4938; 5510
BstNI	CC!WGG	21	90; 283; 659; 869; 1045; 1169; 1496; 1750; 1798; 1894; 1909; 2038; 3174; 3229; 3246; 4025; 4604; 4707; 5397; 5410; 5531
BstNSI	RCATG!Y	5	1605; 3208; 3280; 4043; 5560
BstOI	CC!WGG	21	90; 283; 659; 869; 1045; 1169; 1496; 1750; 1798; 1894; 1909; 2038; 3174; 3229; 3246; 4025; 4604; 4707; 5397; 5410; 5531
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	2	1099; 2206
BstSCI	!CCNGG	28	88; 281; 657; 867; 1043; 1167; 1337; 1494; 1501; 1748; 1796; 1892; 1907; 2036; 2145; 3172; 3227; 3244; 3640; 3800; 4023; 4413; 4602; 4705; 5177; 5395; 5408; 5529
BstSFI	C!TRYAG	5	812; 931; 2973; 5100; 5291
BstSLI	GKGCM!C	8	1350; 1630; 1657; 1690; 2267; 3584; 3677; 5246
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	16	60; 1546; 2287; 2562; 2938; 2958; 2982; 3013; 3704; 4005; 4443; 4527; 4590; 4659; 4932; 5513
Bst2UI	CC!WGG	21	90; 283; 659; 869; 1045; 1169; 1496; 1750; 1798; 1894; 1909; 2038; 3174; 3229; 3246; 4025; 4604; 4707; 5397; 5410; 5531
BstV1I	GCAGCNNNNNNNN!	11	660; 945; 1502; 1784; 2226; 2426; 3711; 3753; 4274; 4727; 5227
BstV1I	!NNNNNNNNNNNGCTGC	12	798; 859; 1269; 1433; 1519; 1903; 2920; 3585; 3769; 3862; 4928; 5134
BstV2I	GAAGACNN!	1	1874
BstV2I	!NNNNNNGTCTTC	2	1131; 1254
BstXI	CCANNNNN!NTGG	2	978; 1224
BstX2I	R!GATCY	11	585; 609; 1548; 2113; 3809; 4055; 4447; 4806; 4818; 4904; 4915
BstYI	R!GATCY	11	585; 609; 1548; 2113; 3809; 4055; 4447; 4806; 4818; 4904; 4915
BstZI	C!GGCCG	2	2282; 3544
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3067; 3857; 5358
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3478
Bsu36I	CC!TNAGG	3	1832; 3118; 4750
BsuRI	GG!CC	36	84; 277; 758; 970; 1025; 1135; 1315; 1342; 1403; 1540; 1724; 1967; 2002; 2036; 2059; 2081; 2191; 2233; 2284; 2604; 2746; 3401; 3407; 3416; 3459; 3546; 3720; 4111; 4138; 4647; 4704; 4737; 5082; 5516; 5534; 5545
BsuTUI	AT!CGAT	1	3478
BtgI	C!CRYGG	6	360; 1026; 1178; 1565; 3367; 4070
BtgZI	GCGATGNNNNNNNNN!	2	2755; 4090
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 3909; 4253
BthCI	GCNG!C	47	651; 654; 657; 814; 875; 921; 936; 1188; 1285; 1367; 1449; 1493; 1535; 1724; 1775; 1919; 2036; 2217; 2284; 2287; 2417; 2936; 2958; 2972; 3410; 3549; 3601; 3612; 3702; 3707; 3744; 3785; 3872; 3878; 4114; 4210; 4251; 4265; 4379; 4718; 4733; 4944; 5150; 5153; 5218; 5361; 5516
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	1	674
BtsI	!CACTGC	1	2477
BtsCI	GGATGNN!	6	701; 1467; 3498; 3955; 3980; 4434
BtsCI	!CATCC	8	938; 1301; 1334; 1657; 1745; 1802; 1957; 3324
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3906; 4356
BveI	!NNNNNNNNGCAGGT	1	3525
Cac8I	GCN!NGC	33	86; 279; 593; 1280; 1350; 1514; 1542; 1675; 1879; 2857; 2900; 2914; 3187; 3206; 3259; 3278; 3532; 3718; 3937; 4003; 4009; 4041; 4082; 4086; 4140; 4423; 4610; 4657; 4713; 4735; 4946; 5506; 5543

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CaiI	CAGNNN!CTG	3	2240; 4739; 5147
CciI	T!CATGA	2	3064; 4836
CciNI	GC!GGCCGC	1	2282
CdiI	CATC!G	5	352; 3927; 3932; 4130; 4271
CdiI	C!GATG	2	2741; 4076
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5510
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3299; 3341
CelII	GC!TNAGC	0	
CfoI	GCG!C	24	597; 1364; 1487; 1546; 2904; 2912; 2938; 2960; 2969; 2982; 3013; 3632; 3640; 3704; 3741; 4007; 4267; 4443; 4529; 4932; 5041; 5215; 5315; 5382
CfrI	Y!GGCCR	10	756; 968; 1313; 1401; 2231; 2282; 3544; 3718; 4109; 4136
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	6	737; 1554; 2855; 3957; 4138; 4421
Cfr13I	G!GNCC	19	83; 276; 926; 1023; 1032; 1068; 1094; 1340; 1723; 1966; 2058; 2079; 2163; 2745; 4154; 4599; 4645; 4703; 4736
Cfr42I	CCG!GG	0	
ChaI	GATC!	24	589; 613; 1440; 1552; 1941; 2091; 2117; 2299; 3479; 3483; 3502; 3813; 3891; 3972; 3981; 4059; 4435; 4451; 4810; 4822; 4900; 4908; 4919; 4994
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	1669; 3455; 4895; 4995; 5073
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 738; 1491; 3122; 3217; 4409; 4959; 5514
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 772; 1525; 3156; 3251; 4443; 4993; 5548
CjeI	!NNNNNNNNCCANNNNNNGT	5	1635; 3421; 4861; 4961; 5039
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	5	975; 1384; 1429; 4895; 5073
CjePI	!NNNNNNNNGANNNNNNNTGG	6	257; 808; 1694; 2039; 4409; 5008
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	6	290; 841; 1727; 2072; 4442; 5041
CjePI	!NNNNNNNNCCANNNNNNNTC	5	942; 1351; 1396; 4862; 5040
Clal	AT!CGAT	1	3478
CpoI	CG!GWCCG	1	4154
CseI	GACGCNNNNN!	3	526; 4348; 4427
CseI	!NNNNNNNNNNNGCGTC	4	2139; 2971; 4866; 5444
CsiI	A!CCWGGT	1	3227
CspI	CG!GWCCG	1	4154
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 714; 1326; 1617; 1767; 2019; 3943
Csp45I	TT!CGAA	2	627; 4320
CspAI	A!CCGGT	1	1554
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	1619; 2210; 2918; 4527
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	30	301; 361; 795; 913; 972; 1027; 1143; 1179; 1275; 1566; 1602; 1608; 1620; 1698; 1764; 1844; 2055; 3065; 3205; 3277; 3368; 3509; 3854; 4040; 4071; 4097; 4453; 4837; 5557; 5608
CviJI	RG!CY	124	42; 84; 93; 277; 566; 618; 624; 657; 758; 768; 811; 867; 872; 921; 936; 958; 970; 982; 1017; 1025; 1122; 1135; 1172; 1188; 1282; 1315; 1342; 1357; 1391; 1397; 1403; 1446; 1466; 1493; 1507; 1512; 1516; 1540; 1587; 1614; 1677; 1724; 1753; 1760; 1838; 1904; 1916; 1967; 1994; 2002; 2036; 2059; 2067; 2081; 2191; 2227; 2233; 2284; 2307; 2417; 2584; 2604; 2746; 2827; 2841; 2855; 3136; 3177; 3249; 3372; 3401; 3407; 3416; 3424; 3447; 3459; 3465; 3546; 3563; 3571; 3598; 3623; 3707; 3716; 3720; 3744; 3782; 3858; 3875; 3894; 3957; 4001; 4011; 4028; 4111; 4138; 4142; 4179; 4202; 4218; 4398; 4425; 4486; 4608; 4647; 4704; 4711; 4718; 4737; 4748; 4999; 5028; 5071; 5082; 5147; 5226; 5251; 5256; 5302; 5392; 5490; 5516; 5534; 5545

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	124	42; 84; 93; 277; 566; 618; 624; 657; 758; 768; 811; 867; 872; 921; 936; 958; 970; 982; 1017; 1025; 1122; 1135; 1172; 1188; 1282; 1315; 1342; 1357; 1391; 1397; 1403; 1446; 1466; 1493; 1507; 1512; 1516; 1540; 1587; 1614; 1677; 1724; 1753; 1760; 1838; 1904; 1916; 1967; 1994; 2002; 2036; 2059; 2067; 2081; 2191; 2227; 2233; 2284; 2307; 2417; 2584; 2604; 2746; 2827; 2841; 2855; 3136; 3177; 3249; 3372; 3401; 3407; 3416; 3424; 3447; 3459; 3465; 3546; 3563; 3571; 3598; 3623; 3707; 3716; 3720; 3744; 3782; 3858; 3875; 3894; 3957; 4001; 4011; 4028; 4111; 4138; 4142; 4179; 4202; 4218; 4398; 4425; 4486; 4608; 4647; 4704; 4711; 4718; 4737; 4748; 4999; 5028; 5071; 5082; 5147; 5226; 5251; 5256; 5302; 5392; 5490; 5516; 5534; 5545
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 714; 1326; 1617; 1767; 2019; 3943
DdeI	C!TNAG	13	606; 724; 1077; 1450; 1574; 1832; 2129; 3118; 3420; 4301; 4750; 4873; 5282
DinI	GGC!GCC	1	3639
DpnI	GA!TC	24	587; 611; 1438; 1550; 1939; 2089; 2115; 2297; 3477; 3481; 3500; 3811; 3889; 3970; 3979; 4057; 4433; 4449; 4808; 4820; 4898; 4906; 4917; 4992
DpnII	!GATC	24	585; 609; 1436; 1548; 1937; 2087; 2113; 2295; 3475; 3479; 3498; 3809; 3887; 3968; 3977; 4055; 4431; 4447; 4806; 4818; 4896; 4904; 4915; 4990
DraI	TTT!AAA	3	2340; 4782; 4801
DraII	RG!GNCCY	2	1032; 4736
DraIII	CACNNN!GTG	2	2223; 2754
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	2	266; 5118
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	3	2709; 3665; 5454
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2709; 3665; 5454
EaeI	Y!GGCCR	10	756; 968; 1313; 1401; 2231; 2282; 3544; 3718; 4109; 4136
EagI	C!GGCCG	2	2282; 3544
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	5	1051; 1577; 3105; 3982; 4192
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	5	1051; 1577; 3105; 3982; 4192
EciI	GGCGANNNNNNNNNNNNNN!	4	3138; 4167; 5354; 5500
EciI	!NNNNNNNNNTCCGCC	4	496; 3309; 3330; 3351
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	2	2282; 3544
Eco24I	GRGCY!C	6	620; 1359; 1393; 2829; 4003; 4713
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	2	2194; 4627
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	7	926; 1032; 1068; 1094; 2163; 4154; 4599
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	2282; 3544
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	2083; 3784; 4216
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	771; 5014
Eco72I	CAC!GTG	1	978
Eco81I	CC!TNAGG	3	1832; 3118; 4750
Eco88I	C!YCGRG	2	613; 1392
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	8	360; 1026; 1178; 1565; 3367; 3460; 4070; 4475
Eco147I	AGG!CCT	1	3459
EcoHI	!CCSGG	7	1337; 1501; 2145; 3640; 3800; 4413; 5177
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	5	1066; 2083; 3784; 4216; 4478
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	771; 847; 1891; 4421; 5014
EcoNI	CCTNN!NNNAGG	1	1048
EcoO65I	G!GTNACC	0	
EcoO109I	RG!GNCCY	2	1032; 4736

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	21	88; 281; 657; 867; 1043; 1167; 1494; 1748; 1796; 1892; 1907; 2036; 3172; 3227; 3244; 4023; 4602; 4705; 5395; 5408; 5529
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	8	360; 1026; 1178; 1565; 3367; 3460; 4070; 4475
EcoT22I	ATGCA!T	3	3210; 3282; 5613
EcoT38I	GRGCY!C	6	620; 1359; 1393; 2829; 4003; 4713
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	1	3639
EheI	GGC!GCC	1	3639
ErhI	C!CWWGG	8	360; 1026; 1178; 1565; 3367; 3460; 4070; 4475
EsaBC3I	TC!GA	16	615; 628; 1716; 1743; 2211; 2788; 3479; 3752; 3908; 3932; 3968; 4130; 4321; 4366; 4621; 5459
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	30	304; 364; 798; 916; 975; 1030; 1146; 1182; 1278; 1569; 1605; 1611; 1623; 1701; 1767; 1847; 2058; 3068; 3208; 3280; 3371; 3512; 3857; 4043; 4074; 4100; 4456; 4840; 5560; 5611
Fail	YA!TR	76	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 765; 796; 890; 914; 973; 997; 1028; 1100; 1144; 1148; 1175; 1180; 1276; 1480; 1567; 1603; 1609; 1621; 1699; 1765; 1845; 1863; 2056; 2109; 2159; 2300; 2310; 2376; 2421; 2626; 3054; 3066; 3197; 3206; 3269; 3278; 3302; 3369; 3393; 3510; 3574; 3855; 3880; 4041; 4072; 4098; 4170; 4386; 4454; 4532; 4584; 4745; 4762; 4764; 4766; 4838; 5116; 5305; 5421; 5494; 5558; 5609
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	1842; 3978
FalI	!NNNNNNNNNAAGNNNNNCTT	2	1810; 3946
FaqI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1045; 1095; 3789; 4321; 4430
FaqI	!NNNNNNNNNNNNNGTCCC	6	912; 1224; 3154; 3226; 3290; 4585
FatI	!CATG	30	300; 360; 794; 912; 971; 1026; 1142; 1178; 1274; 1565; 1601; 1607; 1619; 1697; 1763; 1843; 2054; 3064; 3204; 3276; 3367; 3508; 3853; 4039; 4070; 4096; 4452; 4836; 5556; 5607
FauI	CCCGCNNNN!	13	93; 119; 286; 1249; 1357; 1390; 2031; 2133; 2960; 3315; 3336; 4532; 4664
FauI	!NNNNNNGCGGG	6	2068; 2891; 3761; 4298; 4436; 4583
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	2	1205; 2153
FmuI	GGNC!C	19	86; 279; 929; 1026; 1035; 1071; 1097; 1343; 1726; 1969; 2061; 2082; 2166; 2748; 4157; 4602; 4648; 4706; 4739
Fnu4HI	GC!NGC	47	649; 652; 655; 812; 873; 919; 934; 1186; 1283; 1365; 1447; 1491; 1533; 1722; 1773; 1917; 2034; 2215; 2282; 2285; 2415; 2934; 2956; 2970; 3408; 3547; 3599; 3610; 3700; 3705; 3742; 3783; 3870; 3876; 4112; 4208; 4249; 4263; 4377; 4716; 4731; 4942; 5148; 5151; 5216; 5359; 5514
FokI	GGATGNNNNNNNNNN!	6	708; 1474; 3505; 3962; 3987; 4441
FokI	!NNNNNNNNNNNNNCATCC	8	925; 1288; 1321; 1644; 1732; 1789; 1944; 3311
FriOI	GRGCY!C	6	620; 1359; 1393; 2829; 4003; 4713
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3740
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	11	592; 943; 1279; 2252; 2293; 2487; 2905; 3461; 4476; 4810; 5063

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	190	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 647; 671; 732; 751; 765; 858; 877; 907; 924; 942; 963; 984; 1000; 1039; 1057; 1084; 1110; 1132; 1149; 1180; 1222; 1254; 1272; 1299; 1318; 1342; 1356; 1371; 1388; 1417; 1482; 1501; 1515; 1543; 1565; 1644; 1674; 1691; 1705; 1738; 1752; 1770; 1794; 1809; 1839; 1872; 1899; 1914; 1933; 1969; 2016; 2035; 2050; 2073; 2095; 2118; 2138; 2159; 2179; 2205; 2247; 2263; 2298; 2321; 2360; 2374; 2515; 2610; 2634; 2657; 2680; 2698; 2720; 2741; 2760; 2779; 2808; 2829; 2843; 2869; 2957; 2983; 3032; 3073; 3091; 3130; 3146; 3184; 3241; 3256; 3313; 3333; 3347; 3364; 3378; 3415; 3430; 3473; 3556; 3623; 3654; 3674; 3689; 3734; 3748; 3814; 3828; 3847; 3863; 3904; 3924; 3971; 4021; 4037; 4057; 4082; 4102; 4125; 4152; 4170; 4196; 4236; 4262; 4286; 4342; 4356; 4384; 4427; 4448; 4483; 4527; 4615; 4639; 4661; 4681; 4697; 4718; 4732; 4751; 4835; 4855; 4883; 4898; 4932; 4974; 5001; 5016; 5061; 5085; 5099; 5121; 5147; 5167; 5191; 5217; 5265; 5284; 5303; 5329; 5364; 5409; 5439; 5453; 5504; 5518; 5543; 5559; 5580; 5609
FspEI	!NNNNNNNNNNNNNNNGG	156	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 623; 644; 663; 687; 713; 740; 781; 810; 854; 903; 952; 999; 1030; 1051; 1074; 1096; 1117; 1154; 1174; 1210; 1274; 1297; 1323; 1372; 1444; 1481; 1522; 1540; 1561; 1579; 1606; 1648; 1669; 1693; 1735; 1754; 1783; 1819; 1856; 1879; 1898; 1928; 1949; 1976; 2015; 2041; 2060; 2132; 2158; 2206; 2245; 2266; 2309; 2409; 2478; 2508; 2586; 2635; 2657; 2685; 2721; 2766; 2795; 2831; 2850; 2878; 2898; 2961; 2984; 3092; 3124; 3142; 3171; 3214; 3243; 3354; 3383; 3426; 3447; 3475; 3508; 3528; 3553; 3580; 3605; 3627; 3655; 3681; 3702; 3753; 3774; 3792; 3840; 3876; 3932; 3957; 3981; 4010; 4033; 4057; 4083; 4105; 4124; 4149; 4189; 4225; 4290; 4375; 4399; 4428; 4462; 4483; 4503; 4548; 4575; 4594; 4627; 4679; 4710; 4737; 4789; 4887; 4958; 5003; 5064; 5129; 5163; 5189; 5207; 5243; 5313; 5336; 5358; 5382; 5415; 5463; 5498; 5516; 5573
Fsp4HI	GC!NGC	47	649; 652; 655; 812; 873; 919; 934; 1186; 1283; 1365; 1447; 1491; 1533; 1722; 1773; 1917; 2034; 2215; 2282; 2285; 2415; 2934; 2956; 2970; 3408; 3547; 3599; 3610; 3700; 3705; 3742; 3783; 3870; 3876; 4112; 4208; 4249; 4263; 4377; 4716; 4731; 4942; 5148; 5151; 5216; 5359; 5514
GdiII	C!GGCCR	3	1401; 2282; 3544
GdiII	Y!GGCCG	6	756; 1313; 2282; 3544; 4109; 4136
GlaI	GC!GC	24	596; 1363; 1486; 1545; 2903; 2911; 2937; 2959; 2968; 2981; 3012; 3631; 3639; 3703; 3740; 4006; 4266; 4442; 4528; 4931; 5040; 5214; 5314; 5381
GluI	GC!NGC	47	649; 652; 655; 812; 873; 919; 934; 1186; 1283; 1365; 1447; 1491; 1533; 1722; 1773; 1917; 2034; 2215; 2282; 2285; 2415; 2934; 2956; 2970; 3408; 3547; 3599; 3610; 3700; 3705; 3742; 3783; 3870; 3876; 4112; 4208; 4249; 4263; 4377; 4716; 4731; 4942; 5148; 5151; 5216; 5359; 5514
GsaI	CCCAG!C	5	958; 1362; 3185; 3257; 5256
GsaI	GCTGG!G	3	1511; 1998; 4146
GsuI	CTGGAGNNNNNNNNNNNNNN!	2	1066; 4478
GsuI	!NNNNNNNNNNNNNNCTCCAG	3	847; 1891; 4421
HaeI	WGG!CCW	8	970; 2002; 2233; 3459; 3720; 5082; 5534; 5545
HaeII	RGCGC!Y	6	598; 1365; 2905; 2913; 3641; 5316
HaeIII	GG!CC	36	84; 277; 758; 970; 1025; 1135; 1315; 1342; 1403; 1540; 1724; 1967; 2002; 2036; 2059; 2081; 2191; 2233; 2284; 2604; 2746; 3401; 3407; 3416; 3459; 3546; 3720; 4111; 4138; 4647; 4704; 4737; 5082; 5516; 5534; 5545
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	3	856; 2313; 3834
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	822; 2279; 3800
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	3	855; 2312; 3833
HaeIV	!NNNNNNNGAYNNNNNRTC	3	824; 2281; 3802
HapII	C!CGG	23	601; 738; 1119; 1338; 1502; 1555; 2147; 2856; 3543; 3620; 3642; 3670; 3801; 3891; 3958; 4139; 4414; 4422; 4514; 4988; 5178; 5204; 5351
HgaI	GACGCNNNNN!	3	526; 4348; 4427
HgaI	!NNNNNNNNNNNGCGTC	4	2139; 2971; 4866; 5444
HhaI	GCG!C	24	597; 1364; 1487; 1546; 2904; 2912; 2938; 2960; 2969; 2982; 3013; 3632; 3640; 3704; 3741; 4007; 4267; 4443; 4529; 4932; 5041; 5215; 5315; 5382

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HinI	GR!CGYC	9	122; 175; 258; 444; 1202; 2150; 3638; 4340; 4419
Hin1III	CATG!	30	304; 364; 798; 916; 975; 1030; 1146; 1182; 1278; 1569; 1605; 1611; 1623; 1701; 1767; 1847; 2058; 3068; 3208; 3280; 3371; 3512; 3857; 4043; 4074; 4100; 4456; 4840; 5560; 5611
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	4	855; 1551; 2312; 3833
Hin4I	!NNNNNNNGABNNNNNRTC	4	823; 2280; 3801; 3831
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	4	855; 2312; 3833; 3863
Hin4I	!NNNNNNNGAYNNNNNVTC	4	823; 1519; 2280; 3801
Hin6I	G!CGC	24	595; 1362; 1485; 1544; 2902; 2910; 2936; 2958; 2967; 2980; 3011; 3630; 3638; 3702; 3739; 4005; 4265; 4441; 4527; 4930; 5039; 5213; 5313; 5380
HinP1I	G!CGC	24	595; 1362; 1485; 1544; 2902; 2910; 2936; 2958; 2967; 2980; 3011; 3630; 3638; 3702; 3739; 4005; 4265; 4441; 4527; 4930; 5039; 5213; 5313; 5380
HincII	GTY!RAC	1	2401
HindII	GTY!RAC	1	2401
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	17	410; 604; 791; 1703; 1853; 2180; 2289; 2681; 2703; 3113; 4123; 4257; 4309; 4367; 4404; 5186; 5582
HpaI	GTT!AAC	1	2401
HpaII	C!CGG	23	601; 738; 1119; 1338; 1502; 1555; 2147; 2856; 3543; 3620; 3642; 3670; 3801; 3891; 3958; 4139; 4414; 4422; 4514; 4988; 5178; 5204; 5351
HphI	GGTGANNNNNNNN!	6	376; 841; 1065; 1959; 4709; 4825
HphI	!NNNNNNNTCACC	6	976; 1257; 1406; 1848; 2755; 3816
Hpy8I	GTN!NAC	20	201; 539; 577; 716; 735; 1071; 1094; 1206; 1227; 1326; 1635; 1655; 1950; 2154; 2163; 2401; 2685; 2702; 2757; 5244
Hpy99I	CGWCG!	9	1204; 2212; 3728; 3756; 4050; 4065; 4342; 4727; 5460
Hpy166II	GTN!NAC	20	201; 539; 577; 716; 735; 1071; 1094; 1206; 1227; 1326; 1635; 1655; 1950; 2154; 2163; 2401; 2685; 2702; 2757; 5244
Hpy188I	TCN!GA	15	585; 609; 790; 1662; 1942; 2812; 3421; 3605; 3949; 4302; 4403; 4882; 5016; 5369; 5447
Hpy188III	TC!NNGA	24	613; 1935; 2100; 2139; 2293; 3065; 3117; 3430; 3483; 3656; 3972; 3981; 4064; 4120; 4164; 4254; 4287; 4356; 4837; 4911; 4994; 5092; 5190; 5324
HpyAV	CCTTCNNNNNN!	8	855; 1388; 1743; 1791; 1836; 4283; 4390; 5069
HpyAV	!NNNNNGAAGG	9	1663; 2035; 2871; 3766; 4495; 4511; 4694; 5011; 5321
HpyCH4III	ACN!GT	18	76; 198; 269; 543; 581; 1088; 1224; 1260; 1269; 1632; 2729; 4018; 4134; 4242; 4565; 5056; 5526; 5597
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 977; 1202; 1931; 2207; 2698; 2710; 2753; 2863; 3754; 3941; 4722; 4855
HpyCH4V	TG!CA	26	814; 854; 875; 933; 975; 1298; 1605; 1655; 1977; 2093; 2387; 2414; 2482; 3199; 3208; 3271; 3280; 3395; 3471; 3530; 3689; 3864; 3878; 4948; 5244; 5611
HpyF3I	C!TNAG	13	606; 724; 1077; 1450; 1574; 1832; 2129; 3118; 3420; 4301; 4750; 4873; 5282
HpyF10VI	GCNNNNN!NNGC	34	90; 212; 244; 283; 376; 400; 654; 878; 1354; 1455; 1496; 1513; 1532; 1611; 2042; 2865; 2895; 2922; 2964; 3205; 3277; 3328; 3407; 3629; 3713; 3736; 3875; 3998; 4081; 4348; 4535; 4739; 4938; 5510
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 1202; 2150; 3638; 4340; 4419
Hsp92II	CATG!	30	304; 364; 798; 916; 975; 1030; 1146; 1182; 1278; 1569; 1605; 1611; 1623; 1701; 1767; 1847; 2058; 3068; 3208; 3280; 3371; 3512; 3857; 4043; 4074; 4100; 4456; 4840; 5560; 5611
HspAI	G!CGC	24	595; 1362; 1485; 1544; 2902; 2910; 2936; 2958; 2967; 2980; 3011; 3630; 3638; 3702; 3739; 4005; 4265; 4441; 4527; 4930; 5039; 5213; 5313; 5380
KasI	G!GCGCC	1	3637
KfII	GG!GWCCC	1	1032
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	2401
Kzo9I	!GATC	24	585; 609; 1436; 1548; 1937; 2087; 2113; 2295; 3475; 3479; 3498; 3809; 3887; 3968; 3977; 4055; 4431; 4447; 4806; 4818; 4896; 4904; 4915; 4990
LguI	GCTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LguI	!NNNNGAAGAGC	3	1577; 3982; 4192
LpnI	RGC!GCGY	6	596; 1363; 2903; 2911; 3639; 5314
LpnPI	CCDGNNNNNNNNN!	76	102; 295; 614; 671; 751; 877; 943; 968; 1000; 1057; 1132; 1181; 1224; 1351; 1372; 1430; 1483; 1508; 1554; 1568; 1705; 1762; 1810; 1844; 1906; 1921; 1982; 2050; 2074; 2098; 2160; 2247; 2375; 2680; 2869; 3092; 3130; 3146; 3186; 3241; 3258; 3358; 3443; 3556; 3633; 3655; 3678; 3814; 3828; 3847; 3904; 3971; 4021; 4037; 4094; 4152; 4361; 4427; 4451; 4527; 4616; 4719; 4752; 4983; 5001; 5147; 5167; 5191; 5217; 5266; 5364; 5409; 5439; 5518; 5543; 5580
LpnPI	!NNNNNNNNNNNNNCHGG	69	75; 268; 552; 586; 623; 644; 678; 723; 787; 854; 1030; 1064; 1104; 1154; 1174; 1274; 1323; 1444; 1481; 1540; 1735; 1783; 1879; 1980; 2023; 2132; 2158; 2245; 2721; 2841; 2898; 2961; 3159; 3171; 3231; 3243; 3475; 3520; 3563; 3605; 3627; 3655; 3702; 3764; 3786; 3876; 3943; 3966; 4010; 4105; 4124; 4149; 4298; 4399; 4442; 4499; 4589; 4692; 4719; 4737; 4973; 5010; 5163; 5189; 5329; 5347; 5382; 5463; 5516
Lsp1109I	GCAGCNNNNNNNN!	11	660; 945; 1502; 1784; 2226; 2426; 3711; 3753; 4274; 4727; 5227
Lsp1109I	!NNNNNNNNNNNGCTGC	12	798; 859; 1269; 1433; 1519; 1903; 2920; 3585; 3769; 3862; 4928; 5134
LweI	GCATCNNNNN!	8	1301; 1811; 2454; 3217; 3289; 3937; 4001; 4276
LweI	!NNNNNNNNNGATGC	8	357; 1964; 2003; 2132; 3596; 3851; 4067; 5459
MabI	A!CCWGGT	1	3227
MaeI	C!TAG	11	592; 943; 1279; 2252; 2293; 2487; 2905; 3461; 4476; 4810; 5063
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 977; 1202; 1931; 2207; 2698; 2710; 2753; 2863; 3754; 3941; 4722; 4855
MaeIII	!GTNAC	14	61; 148; 497; 669; 1854; 2426; 2927; 2939; 3758; 4064; 4754; 5020; 5136; 5199
MalI	GA!TC	24	587; 611; 1438; 1550; 1939; 2089; 2115; 2297; 3477; 3481; 3500; 3811; 3889; 3970; 3979; 4057; 4433; 4449; 4808; 4820; 4898; 4906; 4917; 4992
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	3	1367; 3062; 4251
MbiI	GAG!CGG	3	2281; 2898; 4305
MboI	!GATC	24	585; 609; 1436; 1548; 1937; 2087; 2113; 2295; 3475; 3479; 3498; 3809; 3887; 3968; 3977; 4055; 4431; 4447; 4806; 4818; 4896; 4904; 4915; 4990
MboII	GAAGANNNNNNNN!	10	1014; 1068; 1594; 1879; 1992; 2894; 3122; 3999; 4209; 4828
MboII	!NNNNNNNTCTTC	9	771; 833; 891; 1131; 1254; 4289; 4456; 4656; 4899
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2388
MfiI	R!GATCY	11	585; 609; 1548; 2113; 3809; 4055; 4447; 4806; 4818; 4904; 4915
MhII	GDGCH!C	16	620; 1350; 1359; 1393; 1630; 1657; 1690; 2267; 2829; 3584; 3677; 3751; 3941; 4003; 4713; 5246
MIsI	TGG!CCA	3	970; 2233; 3720
MluI	A!CGCGT	0	
MluNI	TGG!CCA	3	970; 2233; 3720
MlyI	GAGTCNNNNN!	3	1862; 2690; 3122
MlyI	!NNNNNGACTC	6	404; 598; 2283; 2697; 4303; 5180
Mly113I	GG!CGCC	1	3638
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1985; 2731
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5163; 5347
MnII	CCTCNNNNNNN!	18	645; 973; 1296; 1315; 1339; 1420; 1736; 1915; 1930; 2146; 2257; 2357; 3421; 4239; 4445; 4759; 5129; 5453
MnII	!NNNNNGAGG	29	541; 671; 682; 1014; 1041; 1052; 1125; 1311; 1617; 1656; 1677; 1710; 1827; 1936; 1992; 2181; 2214; 2317; 2782; 3113; 3391; 3434; 3449; 3489; 3553; 3689; 4046; 4476; 5379
Mph1103I	ATGCA!T	3	3210; 3282; 5613
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	2855; 4138; 4421
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	3	970; 2233; 3720

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MseI	T!TAA	18	7; 1592; 1817; 2273; 2339; 2400; 2521; 2542; 2553; 2565; 2576; 2593; 2691; 2962; 4781; 4795; 4800; 4852
MslI	CAYNN!NNRTG	8	365; 976; 1089; 1108; 1567; 1606; 2011; 4075
MspI	C!CGG	23	601; 738; 1119; 1338; 1502; 1555; 2147; 2856; 3543; 3620; 3642; 3670; 3801; 3891; 3958; 4139; 4414; 4422; 4514; 4988; 5178; 5204; 5351
Msp20I	TGG!CCA	3	970; 2233; 3720
MspA1I	CMG!CKG	6	1532; 2026; 3136; 3744; 4973; 5218
MspCI	C!TTAAG	1	2520
MspJI	CNNRNNNNNNNN!	285	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; 640; 670; 686; 705; 719; 732; 750; 771; 801; 814; 827; 870; 906; 923; 942; 955; 976; 990; 1006; 1030; 1050; 1075; 1089; 1109; 1122; 1155; 1180; 1201; 1223; 1248; 1262; 1287; 1301; 1318; 1342; 1355; 1370; 1394; 1425; 1441; 1455; 1471; 1491; 1507; 1520; 1548; 1567; 1586; 1600; 1614; 1632; 1662; 1680; 1695; 1710; 1728; 1761; 1776; 1804; 1819; 1843; 1856; 1872; 1890; 1904; 1920; 1933; 1947; 1968; 1981; 2002; 2015; 2035; 2049; 2067; 2080; 2097; 2112; 2129; 2149; 2179; 2196; 2216; 2230; 2246; 2263; 2278; 2298; 2311; 2326; 2345; 2362; 2375; 2416; 2430; 2443; 2461; 2499; 2514; 2532; 2573; 2597; 2617; 2635; 2656; 2679; 2711; 2726; 2748; 2766; 2779; 2800; 2817; 2830; 2843; 2859; 2872; 2902; 2917; 2942; 2960; 2973; 2988; 3012; 3026; 3050; 3075; 3091; 3129; 3145; 3184; 3198; 3212; 3240; 3256; 3270; 3284; 3313; 3326; 3347; 3356; 3378; 3408; 3424; 3442; 3472; 3495; 3519; 3543; 3562; 3590; 3616; 3632; 3645; 3668; 3682; 3702; 3715; 3729; 3748; 3762; 3775; 3791; 3806; 3819; 3835; 3850; 3866; 3891; 3910; 3926; 3939; 3952; 3970; 3984; 3998; 4014; 4036; 4052; 4071; 4093; 4109; 4132; 4151; 4165; 4181; 4195; 4215; 4231; 4244; 4266; 4299; 4313; 4333; 4346; 4360; 4414; 4427; 4450; 4463; 4482; 4499; 4526; 4562; 4595; 4614; 4639; 4660; 4687; 4700; 4717; 4731; 4746; 4762; 4822; 4847; 4863; 4885; 4898; 4912; 4943; 4957; 4982; 5000; 5015; 5028; 5047; 5060; 5075; 5104; 5123; 5141; 5166; 5181; 5200; 5216; 5235; 5253; 5269; 5283; 5302; 5329; 5352; 5374; 5393; 5408; 5421; 5438; 5458; 5485; 5498; 5517; 5542; 5565; 5579; 5592; 5609
MspJI	!NNNNNNNNNNNNYNG	239	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; 612; 644; 668; 688; 706; 724; 741; 758; 781; 808; 837; 854; 875; 899; 916; 941; 958; 999; 1030; 1051; 1074; 1092; 1115; 1133; 1154; 1175; 1197; 1220; 1237; 1261; 1281; 1303; 1323; 1340; 1368; 1385; 1403; 1420; 1437; 1456; 1481; 1499; 1522; 1541; 1561; 1579; 1606; 1636; 1660; 1678; 1702; 1721; 1743; 1783; 1804; 1830; 1850; 1879; 1921; 1955; 1976; 1996; 2023; 2041; 2058; 2076; 2104; 2125; 2144; 2170; 2192; 2215; 2238; 2264; 2290; 2319; 2348; 2390; 2473; 2508; 2535; 2558; 2587; 2631; 2653; 2685; 2721; 2738; 2759; 2796; 2816; 2833; 2850; 2885; 2903; 2921; 2938; 2962; 2984; 3011; 3039; 3065; 3103; 3124; 3141; 3159; 3182; 3203; 3231; 3254; 3275; 3293; 3314; 3331; 3354; 3378; 3398; 3416; 3438; 3469; 3491; 3517; 3536; 3553; 3581; 3600; 3619; 3637; 3655; 3676; 3698; 3722; 3755; 3775; 3793; 3814; 3840; 3867; 3884; 3901; 3918; 3944; 3966; 3988; 4006; 4026; 4045; 4067; 4105; 4125; 4149; 4169; 4189; 4216; 4240; 4273; 4292; 4320; 4342; 4371; 4399; 4424; 4443; 4462; 4483; 4500; 4517; 4548; 4575; 4595; 4618; 4638; 4675; 4692; 4711; 4737; 4757; 4796; 4823; 4842; 4860; 4897; 4915; 4956; 4974; 5000; 5017; 5049; 5078; 5106; 5127; 5150; 5169; 5190; 5208; 5225; 5243; 5269; 5290; 5310; 5330; 5348; 5369; 5395; 5412; 5431; 5450; 5479; 5498; 5516; 5535; 5553; 5571; 5594
MspR9I	CC!NGG	28	90; 283; 659; 869; 1045; 1169; 1339; 1496; 1503; 1750; 1798; 1894; 1909; 2038; 2147; 3174; 3229; 3246; 3642; 3802; 4025; 4415; 4604; 4707; 5179; 5397; 5410; 5531
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2388
MvaI	CC!WGG	21	90; 283; 659; 869; 1045; 1169; 1496; 1750; 1798; 1894; 1909; 2038; 3174; 3229; 3246; 4025; 4604; 4707; 5397; 5410; 5531
Mva1269I	GAATGCN!	1	2389
Mva1269I	G!CATTC	2	741; 2482
MvnI	CG!CG	16	60; 1546; 2287; 2562; 2938; 2958; 2982; 3013; 3704; 4005; 4443; 4527; 4590; 4659; 4932; 5513

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	34	90; 212; 244; 283; 376; 400; 654; 878; 1354; 1455; 1496; 1513; 1532; 1611; 2042; 2865; 2895; 2922; 2964; 3205; 3277; 3328; 3407; 3629; 3713; 3736; 3875; 3998; 4081; 4348; 4535; 4739; 4938; 5510
NaeI	GCC!GGC	3	2857; 4140; 4423
NarI	GG!CGCC	1	3638
NciI	CC!SGG	7	1339; 1503; 2147; 3642; 3802; 4415; 5179
NcoI	C!CATGG	6	360; 1026; 1178; 1565; 3367; 4070
NdeI	CA!TATG	1	234
NdeII	!GATC	24	585; 609; 1436; 1548; 1937; 2087; 2113; 2295; 3475; 3479; 3498; 3809; 3887; 3968; 3977; 4055; 4431; 4447; 4806; 4818; 4896; 4904; 4915; 4990
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	2	1130; 1694
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	2	1166; 1730
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	2855; 4138; 4421
NheI	G!CTAGC	2	591; 1278
NlaIII	CATG!	30	304; 364; 798; 916; 975; 1030; 1146; 1182; 1278; 1569; 1605; 1611; 1623; 1701; 1767; 1847; 2058; 3068; 3208; 3280; 3371; 3512; 3857; 4043; 4074; 4100; 4456; 4840; 5560; 5611
NlaIV	GGN!NCC	22	467; 928; 1033; 1467; 1500; 1550; 1629; 1689; 2080; 2793; 2814; 2826; 3017; 3178; 3250; 3639; 3674; 4522; 4601; 4646; 5489; 5528
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2470; 2785; 4377
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 812; 1954; 5449
Nli3877I	CYCGR!G	2	617; 1396
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	5	784; 1341; 1378; 3427; 3863
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	3	1516; 1970; 3392
NmeDI	RCCGGYNNNNNN!	6	749; 1566; 2867; 3969; 4150; 4433
NmeDI	!NNNNNNNNNNNNRCCGGY	6	724; 1541; 2842; 3944; 4125; 4408
NmuCI	!GTSAC	5	669; 1854; 2927; 3758; 4064
NotI	GC!GGCCGC	1	2282
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3740
NsiI	ATGCA!T	3	3210; 3282; 5613
NspI	RCATG!Y	5	1605; 3208; 3280; 4043; 5560
NspV	TT!CGAA	2	627; 4320
OliI	CACNN!NNGTG	2	1089; 1567
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 716; 1328; 1619; 1769; 2021; 3945
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3208; 3280; 4043
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	3064; 4836
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1797; 4603; 4706
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3459
PciI	A!CATGT	1	5556
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	1577; 3982; 4192
PcsI	WCGNNNN!NNNCGW	7	2216; 3932; 4009; 4252; 4326; 4719; 5237
PctI	GAATGCN!	1	2389
PctI	G!CATT	2	741; 2482
PdiI	GCC!GGC	3	2857; 4140; 4423
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	8	791; 1703; 2180; 4123; 4257; 4367; 4404; 5582
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3756
PfIMI	CCANNNN!NTGG	1	2172
PfoI	T!CCNGGA	2	1907; 4413

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PhoI	GG!CC	36	84; 277; 758; 970; 1025; 1135; 1315; 1342; 1403; 1540; 1724; 1967; 2002; 2036; 2059; 2081; 2191; 2233; 2284; 2604; 2746; 3401; 3407; 3416; 3459; 3546; 3720; 4111; 4138; 4647; 4704; 4737; 5082; 5516; 5534; 5545
PinAI	A!CCGGT	1	1554
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	2	1130; 4019
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	3584; 3839
PleI	GAGTCNNNN!	3	1861; 2689; 3121
PleI	!NNNNNGACTC	6	404; 598; 2283; 2697; 4303; 5180
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	978
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	1	978
PpiI	GAACNNNNNNCTCNNNNNNNNNNNNNN!	1	2720
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4850
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4882
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2688
PpsI	GAGTCNNNN!	3	1861; 2689; 3121
PpsI	!NNNNNGACTC	6	404; 598; 2283; 2697; 4303; 5180
Ppu10I	A!TGCAT	3	3206; 3278; 5609
Ppu21I	YAC!GTR	4	340; 978; 2754; 3942
PpuMI	RG!GWCCY	1	1032
PscI	A!CATGT	1	5556
PshAI	GACNN!NNGTC	2	1099; 2206
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2421; 2626
Psp03I	GGWC!C	7	929; 1035; 1071; 1097; 2166; 4157; 4602
Psp5II	RG!GWCCY	1	1032
Psp6I	!CCWGG	21	88; 281; 657; 867; 1043; 1167; 1494; 1748; 1796; 1892; 1907; 2036; 3172; 3227; 3244; 4023; 4602; 4705; 5395; 5408; 5529
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	1	978
PspEI	G!GTNACC	0	
PspGI	!CCWGG	21	88; 281; 657; 867; 1043; 1167; 1494; 1748; 1796; 1892; 1907; 2036; 3172; 3227; 3244; 4023; 4602; 4705; 5395; 5408; 5529
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 928; 1033; 1467; 1500; 1550; 1629; 1689; 2080; 2793; 2814; 2826; 3017; 3178; 3250; 3639; 3674; 4522; 4601; 4646; 5489; 5528
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	3	125; 3368; 4367
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3770
PspPI	G!GNCC	19	83; 276; 926; 1023; 1032; 1068; 1094; 1340; 1723; 1966; 2058; 2079; 2163; 2745; 4154; 4599; 4645; 4703; 4736
PspPPI	RG!GWCCY	1	1032
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	4	973; 3191; 3263; 4769
PspPRI	!NNNNNNNNNNNNNNNNNNCTGRGG	4	1818; 2246; 3104; 4299
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	1035; 4739
PstI	CTGCA!G	2	816; 935
PstNI	CAGNNN!CTG	3	2240; 4739; 5147
PsuI	R!GATCY	11	585; 609; 1548; 2113; 3809; 4055; 4447; 4806; 4818; 4904; 4915
PsyI	GACN!NNGTC	1	3756
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	3136; 3744
RcaI	T!CATGA	2	3064; 4836
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	4153
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RgiI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	2367
RleAI	!NNNNNNNNNTGTGGG	1	814
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 715; 1327; 1618; 1768; 2020; 3944
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 714; 1326; 1617; 1767; 2019; 3943
RseI	CAYNN!NNRTG	8	365; 976; 1089; 1108; 1567; 1606; 2011; 4075
RsrII	CG!GWCCG	1	4154
Rsr2I	CG!GWCCG	1	4154
SacI	GAGCT!C	1	620
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	1577; 3982; 4192
SaqAI	T!TAA	18	7; 1592; 1817; 2273; 2339; 2400; 2521; 2542; 2553; 2565; 2576; 2593; 2691; 2962; 4781; 4795; 4800; 4852
SatI	GC!NGC	47	649; 652; 655; 812; 873; 919; 934; 1186; 1283; 1365; 1447; 1491; 1533; 1722; 1773; 1917; 2034; 2215; 2282; 2285; 2415; 2934; 2956; 2970; 3408; 3547; 3599; 3610; 3700; 3705; 3742; 3783; 3870; 3876; 4112; 4208; 4249; 4263; 4377; 4716; 4731; 4942; 5148; 5151; 5216; 5359; 5514
Sau96I	G!GNCC	19	83; 276; 926; 1023; 1032; 1068; 1094; 1340; 1723; 1966; 2058; 2079; 2163; 2745; 4154; 4599; 4645; 4703; 4736
Sau3AI	!GATC	24	585; 609; 1436; 1548; 1937; 2087; 2113; 2295; 3475; 3479; 3498; 3809; 3887; 3968; 3977; 4055; 4431; 4447; 4806; 4818; 4896; 4904; 4915; 4990
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	1862; 2690; 3122
SchI	!NNNNNGACTC	6	404; 598; 2283; 2697; 4303; 5180
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	28	90; 283; 659; 869; 1045; 1169; 1339; 1496; 1503; 1750; 1798; 1894; 1909; 2038; 2147; 3174; 3229; 3246; 3642; 3802; 4025; 4415; 4604; 4707; 5179; 5397; 5410; 5531
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	6	2004; 2072; 3216; 3288; 3457; 5399
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	3793; 4278
SdeOSI	GACNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	1	1131
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	1	1165
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	16	620; 1350; 1359; 1393; 1630; 1657; 1690; 2267; 2829; 3584; 3677; 3751; 3941; 4003; 4713; 5246
SelI	!CGCG	16	58; 1544; 2285; 2560; 2936; 2956; 2980; 3011; 3702; 4003; 4441; 4525; 4588; 4657; 4930; 5511
SetI	ASST!	82	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 663; 682; 711; 721; 938; 960; 980; 1046; 1055; 1070; 1099; 1205; 1284; 1322; 1331; 1380; 1419; 1448; 1589; 1616; 1712; 1762; 1783; 1934; 2069; 2087; 2138; 2206; 2210; 2225; 2249; 2328; 2349; 2358; 2370; 2419; 2586; 2701; 2713; 2756; 2793; 2843; 2866; 2990; 3138; 3233; 3426; 3539; 3667; 3746; 3757; 3829; 3900; 3944; 4204; 4350; 4394; 4725; 4756; 4815; 4858; 5001; 5022; 5121; 5258; 5273; 5292; 5304; 5348; 5394; 5445
SexAI	A!CCWGGT	1	3227
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	1301; 1811; 2454; 3217; 3289; 3937; 4001; 4276
SfaNI	!NNNNNNNNNGATGC	8	357; 1964; 2003; 2132; 3596; 3851; 4067; 5459
Sfcl	C!TRYAG	5	812; 931; 2973; 5100; 5291
SfiI	GGCCNNNN!NGGCC	1	3413
SfoI	GGC!GCC	1	3639
Sfr274I	C!TCGAG	1	613

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	2	627; 4320
SgeI	CNNGNNNNNNNN!	222	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 650; 670; 686; 705; 719; 732; 750; 772; 807; 876; 925; 942; 955; 976; 990; 1030; 1056; 1077; 1091; 1122; 1155; 1180; 1201; 1223; 1248; 1263; 1287; 1301; 1329; 1350; 1366; 1394; 1429; 1455; 1471; 1507; 1520; 1548; 1567; 1614; 1632; 1662; 1686; 1704; 1719; 1761; 1776; 1809; 1843; 1856; 1884; 1905; 1920; 1947; 1981; 2002; 2022; 2035; 2049; 2067; 2080; 2097; 2112; 2130; 2151; 2185; 2223; 2246; 2264; 2298; 2345; 2374; 2416; 2499; 2573; 2657; 2679; 2711; 2748; 2766; 2785; 2800; 2842; 2859; 2876; 2911; 2925; 2942; 2964; 2988; 3012; 3077; 3091; 3129; 3145; 3185; 3198; 3217; 3240; 3257; 3270; 3289; 3319; 3340; 3357; 3380; 3415; 3442; 3473; 3495; 3521; 3543; 3562; 3590; 3626; 3645; 3668; 3682; 3702; 3715; 3729; 3748; 3762; 3781; 3813; 3827; 3840; 3866; 3897; 3910; 3927; 3944; 3958; 3975; 3993; 4008; 4036; 4052; 4071; 4093; 4109; 4132; 4151; 4176; 4195; 4215; 4242; 4266; 4299; 4318; 4346; 4360; 4426; 4450; 4465; 4488; 4509; 4526; 4574; 4601; 4615; 4644; 4668; 4701; 4718; 4738; 4751; 4764; 4822; 4849; 4868; 4898; 4923; 4943; 4957; 4982; 5000; 5037; 5075; 5104; 5132; 5146; 5166; 5181; 5202; 5216; 5235; 5253; 5269; 5309; 5329; 5356; 5374; 5395; 5408; 5421; 5438; 5462; 5485; 5517; 5542; 5569; 5591
SgeI	!NNNNNNNNNNNNCNG	193	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 624; 644; 679; 706; 724; 746; 781; 850; 899; 916; 941; 958; 1004; 1030; 1051; 1096; 1129; 1154; 1175; 1197; 1222; 1261; 1303; 1324; 1345; 1368; 1403; 1429; 1456; 1481; 1499; 1522; 1541; 1588; 1606; 1636; 1660; 1678; 1702; 1735; 1783; 1817; 1858; 1879; 1921; 1955; 1976; 1996; 2023; 2041; 2062; 2086; 2104; 2125; 2159; 2197; 2220; 2238; 2272; 2319; 2348; 2390; 2473; 2547; 2631; 2653; 2685; 2722; 2740; 2759; 2816; 2833; 2850; 2885; 2903; 2923; 2943; 2962; 2986; 3051; 3103; 3159; 3191; 3214; 3231; 3263; 3293; 3314; 3331; 3354; 3389; 3416; 3447; 3469; 3495; 3517; 3536; 3564; 3600; 3619; 3642; 3663; 3681; 3698; 3722; 3755; 3787; 3814; 3840; 3871; 3901; 3918; 3944; 3967; 3988; 4010; 4030; 4050; 4067; 4106; 4125; 4150; 4169; 4189; 4216; 4240; 4273; 4292; 4320; 4342; 4400; 4424; 4443; 4462; 4483; 4500; 4548; 4575; 4595; 4618; 4642; 4675; 4692; 4712; 4738; 4796; 4823; 4842; 4872; 4897; 4917; 4956; 4974; 5011; 5049; 5078; 5106; 5127; 5155; 5176; 5209; 5227; 5283; 5303; 5330; 5348; 5369; 5395; 5412; 5436; 5459; 5491; 5516; 5543; 5565; 5594
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2785; 4572; 5365
SimI	!GACCC	5	106; 1032; 4066; 4634; 4882
SinI	G!GWCC	7	926; 1032; 1068; 1094; 2163; 4154; 4599
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	8	365; 976; 1089; 1108; 1567; 1606; 2011; 4075
SmlI	C!TYRAG	9	613; 619; 1018; 2137; 2520; 4029; 4911; 5188; 5450
SmoI	C!TYRAG	9	613; 619; 1018; 2137; 2520; 4029; 4911; 5188; 5450
SmuI	CCCGNNNN!	13	93; 119; 286; 1249; 1357; 1390; 2031; 2133; 2960; 3315; 3336; 4532; 4664
SmuI	!NNNNNNGCGGG	6	2068; 2891; 3761; 4298; 4436; 4583
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3208; 3280; 4043
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	18; 629; 895; 2274; 2388; 2452; 2530; 2556; 2567; 3214; 3286; 3378; 4796
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	3459

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 1242; 1350; 1365; 1383; 1407; 1488; 1530; 1886; 2024; 2126; 2285; 2953; 2956; 2970; 3060; 3308; 3320; 3329; 3341; 3351; 3362; 3408; 3547; 3610; 4112; 4157; 4223; 4249; 4374; 4377; 4525; 4657; 4964; 5108; 5604
SsiI	G!CGG	30	370; 403; 528; 918; 1185; 1546; 1721; 2033; 2075; 2281; 2898; 2925; 3013; 3123; 3704; 3768; 3869; 3872; 4152; 4207; 4305; 4443; 4590; 4730; 4973; 5218; 5339; 5358; 5485; 5513
SspI	AAT!ATT	2	2546; 3099
SspDI	G!GCGCC	1	3637
SspD5I	GGTGANNNNNNNNN!	6	376; 841; 1065; 1959; 4709; 4825
SspD5I	!NNNNNNNNNTCACC	6	975; 1256; 1405; 1847; 2754; 3815
SstI	GAGCT!C	1	620
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNNNN!	1	1892
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 1248; 1356; 1389; 1814; 2030; 2132; 2153; 2837; 2959; 3314; 3335; 3648; 4051; 4190; 4261; 4531; 4663; 4893; 5331
Sth132I	!NNNNNNNNNCGGG	23	15; 407; 470; 1330; 1385; 1494; 1863; 2067; 2838; 2890; 2991; 3718; 3760; 3793; 4297; 4406; 4435; 4582; 4686; 4717; 5170; 5214; 5422
Sth302II	CC!GG	23	602; 739; 1120; 1339; 1503; 1556; 2148; 2857; 3544; 3621; 3643; 3671; 3802; 3892; 3959; 4140; 4415; 4423; 4515; 4989; 5179; 5205; 5352
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	6	709; 1475; 3506; 3963; 3988; 4442
StsI	!NNNNNNNNNNNNNNNNCATCC	8	924; 1287; 1320; 1643; 1731; 1788; 1943; 3310
StuI	AGG!CCT	1	3459
StyI	C!CWWGG	8	360; 1026; 1178; 1565; 3367; 3460; 4070; 4475
StyD4I	!CCNGG	28	88; 281; 657; 867; 1043; 1167; 1337; 1494; 1501; 1748; 1796; 1892; 1907; 2036; 2145; 3172; 3227; 3244; 3640; 3800; 4023; 4413; 4602; 4705; 5177; 5395; 5408; 5529
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	18	76; 198; 269; 543; 581; 1088; 1224; 1260; 1269; 1632; 2729; 4018; 4134; 4242; 4565; 5056; 5526; 5597
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 980; 1205; 1934; 2210; 2701; 2713; 2756; 2866; 3757; 3944; 4725; 4858
TaqI	T!CGA	16	614; 627; 1715; 1742; 2210; 2787; 3478; 3751; 3907; 3931; 3967; 4129; 4320; 4365; 4620; 5458
TaqII	GACCGANNNNNNNNNNN!	3	2658; 3675; 4343
TaqII	!NNNNNNNNNTCGGTC	2	762; 4587
TaqII	CACCCANNNNNNNNNNN!	2	1705; 1810
TaqII	!NNNNNNNNNTGGGTG	3	172; 3542; 4134
TasI	!AATT	13	18; 629; 895; 2274; 2388; 2452; 2530; 2556; 2567; 3214; 3286; 3378; 4796
TatI	W!GTACW	6	217; 297; 330; 381; 713; 1616
TauI	GCSG!C	23	921; 1188; 1367; 1490; 1724; 2036; 2284; 2287; 2958; 2972; 3410; 3549; 3612; 3707; 3872; 3875; 4114; 4210; 4251; 4379; 4733; 5361; 5516
TfiI	G!AWTC	8	791; 1703; 2180; 4123; 4257; 4367; 4404; 5582
TliI	C!TCGAG	1	613
TruII	T!TAA	18	7; 1592; 1817; 2273; 2339; 2400; 2521; 2542; 2553; 2565; 2576; 2593; 2691; 2962; 4781; 4795; 4800; 4852
Tru9I	T!TAA	18	7; 1592; 1817; 2273; 2339; 2400; 2521; 2542; 2553; 2565; 2576; 2593; 2691; 2962; 4781; 4795; 4800; 4852
TscAI	CASTGNN!	9	674; 732; 1091; 1229; 2484; 3767; 4877; 5148; 5161
TseI	G!CWGC	26	648; 651; 654; 811; 872; 933; 1282; 1446; 1490; 1532; 1772; 1916; 2214; 2414; 2933; 3598; 3699; 3741; 3782; 3875; 4262; 4715; 4941; 5147; 5150; 5215
TsoI	TARCCANNNNNNNNNNN!	2	2610; 2957
TsoI	!NNNNNNNNNTGGYTA	4	1160; 1741; 2415; 4167
Tsp45I	!GTSAC	5	669; 1854; 2927; 3758; 4064
Tsp509I	!AATT	13	18; 629; 895; 2274; 2388; 2452; 2530; 2556; 2567; 3214; 3286; 3378; 4796
TspDTI	ATGAANNNNNNNNNNN!	5	712; 1624; 2396; 3697; 4401
TspDTI	!NNNNNNNNNTTCAT	10	26; 771; 837; 1131; 1263; 1752; 1773; 4115; 4571; 4778
TspEI	!AATT	13	18; 629; 895; 2274; 2388; 2452; 2530; 2556; 2567; 3214; 3286; 3378; 4796

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspGI	ACGGANNNNNNNNNNN!	1	4513
TspGI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CATGNN!	9	674; 732; 1091; 1229; 2484; 3767; 4877; 5148; 5161
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3756
Tth111II	CAARCANNNNNNNNNN!	2	1441; 4965
Tth111III	!NNNNNNNNNTGYTTG	4	1117; 4073; 4933; 4972
UnbI	!GGNCC	19	82; 275; 925; 1022; 1031; 1067; 1093; 1339; 1722; 1965; 2057; 2078; 2162; 2744; 4153; 4598; 4644; 4702; 4735
Van91I	CCANNNN!NTGG	1	2172
Vha464I	C!TTAAG	1	2520
VneI	G!TGCAC	2	1653; 5242
VpaK11AI	!GGWCC	7	925; 1031; 1067; 1093; 2162; 4153; 4598
VpaK11BI	G!GWCC	7	926; 1032; 1068; 1094; 2163; 4154; 4599
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	1	1048
XapI	R!AATY	4	629; 2452; 2556; 2567
XbaI	T!CTAGA	1	2292
XceI	RCATG!Y	5	1605; 3208; 3280; 4043; 5560
XcmI	CCANNNN!NNNTGG	1	1185
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	11	585; 609; 1548; 2113; 3809; 4055; 4447; 4806; 4818; 4904; 4915
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3460; 4475
XmiI	GT!MKAC	2	1205; 2153
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	11	592; 943; 1279; 2252; 2293; 2487; 2905; 3461; 4476; 4810; 5063
ZraI	GAC!GTC	5	123; 176; 259; 445; 1203
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3210; 3282; 5613