

pFusionRed-B vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	1	49
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	2	1939; 2352
AatI	AGG!CCT	1	573
AatII	GACGT!C	1	4059
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	724; 2016
AccII	CG!CG	8	1845; 1847; 1950; 2291; 2872; 3202; 3695; 4027
AccIII	T!CCGGA	1	1222
Acc16I	TGC!GCA	1	3359
Acc36I	ACCTGCNNNN!	0	
Acc36I	!NNNNNNNNGCAGGT	0	
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	4	198; 258; 1692; 3085
AccB7I	CCANNNN!NTGG	2	743; 1458
AccBSI	CCG!CTC	1	1829
AccBSI	GAG!CGG	5	36; 68; 846; 2177; 3978
AceIII	CAGCTCNNNNNNN!	3	1896; 2196; 3436
AceIII	!NNNNNNNNNNNGAGCTG	3	144; 1241; 1823
Acil	C!CGC	25	457; 595; 697; 850; 942; 1204; 1568; 1824; 1827; 2084; 2110; 2127; 2289; 2317; 2444; 2463; 2584; 2829; 3200; 3291; 3528; 3693; 3770; 3879; 4025
Acil	G!CGG	21	36; 68; 292; 604; 646; 846; 1662; 1917; 1956; 1966; 2008; 2033; 2071; 2170; 2177; 2198; 2694; 2838; 3482; 3649; 3978
AclI	AA!CGTT	3	1313; 3363; 3736
AclWI	GGATCNNNN!	4	128; 2893; 2990; 3770
AclWI	!NNNNNGATCC	8	121; 679; 883; 2805; 2891; 2989; 3453; 3774
AcoI	Y!GGCCR	4	802; 847; 1491; 3525
AcsI	R!AATTY	2	17; 1226
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	2	654; 2792
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	3804
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	3	721; 3674; 4056
AdeI	CACNNN!GTG	1	794
AfaI	GT!AC	7	189; 339; 591; 1105; 1643; 2052; 3617
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	10	255; 534; 600; 743; 1458; 1895; 2266; 2284; 2450; 2729
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	1	2244
AgeI	A!CCGGT	1	134
AgsI	TTS!AA	7	59; 221; 2713; 3915; 3938; 3948; 3992
AhdI	GACNNN!NNGTC	1	3137
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	10	319; 463; 478; 607; 1401; 1457; 1705; 2270; 2391; 2404
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	147
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	0	
AlfI	!NNNNNNNNNGCANNNNNTGC	0	
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGGANNNNNNGTTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	0	
AluI	AG!CT	25	158; 185; 331; 638; 856; 865; 870; 974; 978; 998; 1007; 1126; 1255; 1726; 1837; 1886; 1905; 2186; 2412; 2548; 2805; 3125; 3326; 3426; 3489
AluBI	AG!CT	25	158; 185; 331; 638; 856; 865; 870; 974; 978; 998; 1007; 1126; 1255; 1726; 1837; 1886; 1905; 2186; 2412; 2548; 2805; 3125; 3326; 3426; 3489
AlwI	GGATCNNNN!	4	128; 2893; 2990; 3770
AlwI	!NNNNNGATCC	8	121; 679; 883; 2805; 2891; 2989; 3453; 3774
Alw21I	GWGCW!C	5	228; 2064; 2562; 3723; 3808
Alw26I	GTCTCN!	2	1450; 3974
Alw26I	!NNNNNGAGAC	5	576; 666; 765; 1887; 3198
Alw44I	G!TGCAC	4	224; 2060; 2558; 3804
AlwNI	CAGNNN!CTG	1	2660
Ama87I	C!YCGRG	1	1
Aor13HI	T!CCGGA	1	1222
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	1	2069
ApaLI	G!TGCAC	4	224; 2060; 2558; 3804
ApeKI	G!CWGC	15	343; 487; 785; 1837; 1883; 1980; 2149; 2167; 2586; 2651; 2654; 2860; 3125; 3188; 3554
ApoI	R!AATTY	2	17; 1226
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2368
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	0	
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	0	
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	319
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	124
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	2112
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	1	1525
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	1	1493
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	3309
Asi256I	G!ATC	18	121; 127; 659; 685; 889; 2811; 2886; 2897; 2905; 2983; 2995; 3100; 3441; 3459; 3505; 3763; 3780; 3816
AsiGI	A!CCGGT	1	134
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	1991
Asp700I	GAANN!NNTTC	1	3736
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	0	
AspEI	GACNNN!NNGTC	1	3137
AspLEI	GCG!C	16	618; 825; 1847; 1950; 1980; 2121; 2154; 2424; 2491; 2591; 2765; 2874; 3267; 3360; 3697; 4029
AspS9I	G!GNCC	11	294; 537; 629; 650; 734; 1768; 3179; 3258; 3275; 3497; 4113
AssI	AGT!ACT	2	1643; 3617
AsuII	TT!CGAA	0	
AsuC2I	CC!SGG	8	370; 718; 946; 1890; 1925; 2624; 3320; 3671
AsuHPI	GGTGANNNNNNN!	11	161; 530; 840; 973; 1262; 1406; 1474; 1808; 1866; 3623; 3864
AsuHPI	!NNNNNNNTCACC	8	419; 1268; 1462; 1516; 2980; 3207; 3829; 4118
AsuNHI	G!CTAGC	1	974
AvaI	C!YCGRG	1	1
AvaII	G!GWCC	3	734; 3275; 3497
AviII	TGC!GCA	1	3359
AvrII	C!CTAGG	0	
AxyI	CC!TNAGG	1	403
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	7	201; 228; 261; 1697; 2064; 2562; 3808

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BalI	TGG!CCA	2	804; 1493
BamHI	G!GATCC	1	126
BanI	G!GYRCC	4	198; 258; 1692; 3085
BanII	GRGCY!C	0	
BanIII	AT!CGAT	0	
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	2	743; 1458
BauI	C!ACGAG	2	789; 4108
BauI	C!TCGTG	3	639; 2417; 3801
BbeI	GGCG!C	0	
Bbr7I	GAAGACNNNNNN!	1	450
Bbr7I	!NNNNNNNNNNNGTCTTC	1	4110
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	445
BbsI	!NNNNNNNGTCTTC	1	4115
BbuI	GCATG!C	0	
BbvI	GCAGCNNNNNNNN!	7	355; 797; 1895; 1992; 2663; 2872; 3566
BbvI	!NNNNNNNNNNNGCTGC	7	474; 1824; 2136; 2154; 2573; 3112; 3175
Bbv12I	GWGCW!C	5	228; 2064; 2562; 3723; 3808
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	4	920; 3181; 3305; 3592
BccI	!NNNNNGATGG	2	825; 1595
BceAI	ACGGCNNNNNNNNNN!	6	356; 500; 551; 617; 1152; 2746
BceAI	!NNNNNNNNNNNGCCGT	1	1577
Bcefl	ACGGCNNNNNNNNNN!	6	356; 500; 551; 617; 1152; 2746
Bcefl	!NNNNNNNNNNNGCCGT	1	1578
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	3676
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	1	3642
BciVI	GTATCCNNNNNN!	0	
BciVI	!NNNNNGGATAC	2	2447; 3974
BclI	T!GATCA	0	
BcnI	CC!SGG	8	370; 718; 946; 1890; 1925; 2624; 3320; 3671
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	1101; 2349
BdaI	!NNNNNNNNNNTGANNNNNTCA	2	1067; 2315
BfaI	C!TAG	6	975; 1723; 1832; 2739; 2992; 3327
BfiI	ACTGGGNNNNN!	1	1775
BfiI	!NNNNCCCAGT	2	1985; 3177
BfmI	C!TRYAG	3	2509; 2700; 3378
BfoI	RGCGC!Y	3	826; 2122; 2492
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	0	
BfuI	!NNNNNGGATAC	2	2447; 3974
BfuAI	ACCTGCNNNN!	0	
BfuAI	!NNNNNNNNGCAGGT	0	
BfuCI	!GATC	18	120; 126; 658; 684; 888; 2810; 2885; 2896; 2904; 2982; 2994; 3099; 3440; 3458; 3504; 3762; 3779; 3815
BglI	GCCNNNN!NGGC	2	613; 3257
BglII	A!GATCT	0	
BisI	GC!NGC	28	293; 344; 488; 605; 786; 847; 850; 942; 1568; 1827; 1838; 1884; 1981; 2034; 2150; 2171; 2289; 2444; 2587; 2652; 2655; 2861; 3126; 3189; 3528; 3555; 3650; 3879
BlnI	C!CTAGG	0	
BlpI	GC!TNAGC	1	866
BlsI	GCN!GC	28	294; 345; 489; 606; 787; 848; 851; 943; 1569; 1828; 1839; 1885; 1982; 2035; 2151; 2172; 2290; 2445; 2588; 2653; 2656; 2862; 3127; 3190; 3529; 3556; 3651; 3880
BmcAI	AGT!ACT	2	1643; 3617
Bme18I	G!GWCC	3	734; 3275; 3497

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Bme1390I	CC!NGG	18	321; 370; 465; 480; 609; 718; 946; 1403; 1459; 1707; 1890; 1925; 2272; 2393; 2406; 2624; 3320; 3671
BmeRI	GACNNN!NNGTC	1	3137
BmeT110I	C!YCGRG	1	1
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	295; 538; 630; 651; 735; 1769; 3180; 3259; 3276; 3498; 4114
BmiI	GGN!NCC	12	128; 200; 260; 651; 1694; 2276; 2315; 3087; 3181; 3222; 3433; 4023
BmrI	ACTGGGNNNNN!	1	1775
BmrI	!NNNNCCCAGT	2	1985; 3177
BmrFI	CC!NGG	18	321; 370; 465; 480; 609; 718; 946; 1403; 1459; 1707; 1890; 1925; 2272; 2393; 2406; 2624; 3320; 3671
BmsI	GCATCNNNNN!	8	382; 1069; 1742; 2045; 2121; 2341; 3393; 3833
BmsI	!NNNNNNNNNGATGC	6	535; 703; 1554; 1910; 2081; 3584
BmtI	GCTAG!C	1	978
BmuI	ACTGGGNNNNN!	1	1775
BmuI	!NNNNCCCAGT	2	1985; 3177
BoxI	GACNN!NNGTC	1	777
BpiI	GAAGACNN!	1	445
BpiI	!NNNNNNGTCTTC	1	4115
BpI	GAGNNNNNCTCNNNNNNNNNNNNN!	0	
BpI	!NNNNNNNGAGNNNNNCTC	0	
BpmI	CTGGAGNNNNNNNNNNNNNNNNN!	1	1348
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	462; 3207
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	1	999
Bpu14I	TT!CGAA	0	
Bpu1102I	GC!TNAGC	1	866
BpuAI	GAAGACNN!	1	445
BpuAI	!NNNNNNGTCTTC	1	4115
BpuEI	CTTGAGNNNNNNNNNNNNNNNNN!	3	690; 1748; 2633
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	693; 2335; 2874; 3742
BpuMI	CC!SGG	8	370; 718; 946; 1890; 1925; 2624; 3320; 3671
BpvUI	CGAT!CG	1	3507
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	666; 765; 3198
Bsa29I	AT!CGAT	0	
BsaAI	YAC!GTR	1	1998
BsaBI	GATNN!NNATC	1	125
BsaHI	GR!CGYC	3	721; 3674; 4056
BsaJI	C!CNNGG	8	145; 232; 463; 1457; 1458; 1527; 1706; 2404
BsaMI	GAATGCN!	2	1219; 1626
BsaMI	G!CATTC	0	
BsaWI	W!CCGGW	5	134; 1222; 2450; 2597; 3428
BsaXI	ACNNNNNCTCCNNNNNNNNNNN!	0	
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	0	
BsbI	CAACACNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNNGTGTG	1	1940
Bsc4I	CCNNNNN!NNGG	10	255; 534; 600; 743; 1458; 1895; 2266; 2284; 2450; 2729
BscAI	GCATCNNNN!	8	381; 1068; 1741; 2044; 2120; 2340; 3392; 3832
BscAI	!NNNNNNGATGC	6	538; 706; 1557; 1913; 2084; 3587
Bse1I	ACTGGN!	8	748; 821; 1033; 1770; 2024; 2652; 2665; 3613
Bse1I	C!CAGT	8	892; 1473; 1991; 2777; 3183; 3301; 3344; 3783
Bse8I	GATNN!NNATC	1	125
Bse21I	CC!TNAGG	1	403
Bse118I	R!CCGGY	2	134; 3217
BseAI	T!CCGGA	1	1222
BseBI	CC!WGG	10	321; 465; 480; 609; 1403; 1459; 1707; 2272; 2393; 2406
BseCI	AT!CGAT	0	
BseDI	C!CNNGG	8	145; 232; 463; 1457; 1458; 1527; 1706; 2404
Bse3DI	GCAATGNN!	2	1245; 3198
Bse3DI	!CATTGC	1	3372

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BseGI	GGATGNN!	1	1925
BseGI	!CATCC	7	228; 316; 373; 1219; 3116; 3297; 3584
BseJI	GATNN!NNATC	1	125
BseLI	CCNNNNN!NNGG	10	255; 534; 600; 743; 1458; 1895; 2266; 2284; 2450; 2729
BseMI	GCAATGNN!	2	1245; 3198
BseMI	!CATTGC	1	3372
BseMII	CTCAGNNNNNNNNNN!	6	917; 1461; 1767; 2533; 2942; 3108
BseMII	!NNNNNNNNCTGAG	5	394; 857; 1800; 2045; 3625
BseNI	ACTGGN!	8	748; 821; 1033; 1770; 2024; 2652; 2665; 3613
BseNI	C!CAGT	8	892; 1473; 1991; 2777; 3183; 3301; 3344; 3783
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	114
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	7	201; 228; 261; 1697; 2064; 2562; 3808
BseXI	GCAGC!NNNNNNNN!	7	355; 797; 1895; 1992; 2663; 2872; 3566
BseXI	!NNNNNNNNNNNGCTGC	7	474; 1824; 2136; 2154; 2573; 3112; 3175
BseX3I	C!GGCCG	1	847
BseYI	C!CCAGC	1	527
BseYI	G!CTGGG	2	565; 2548
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	8	1845; 1847; 1950; 2291; 2872; 3202; 3695; 4027
Bsh1285I	CGRY!CG	5	139; 850; 2584; 3507; 3656
BshFI	GG!CC	22	295; 538; 573; 607; 630; 652; 762; 804; 849; 1139; 1184; 1406; 1493; 1770; 2259; 2270; 2288; 2722; 3180; 3260; 3527; 4114
BshNI	G!GYRCC	4	198; 258; 1692; 3085
BshTI	A!CCGGT	1	134
BshVI	AT!CGAT	0	
BsiEI	CGRY!CG	5	139; 850; 2584; 3507; 3656
BsiHKAI	GWGCW!C	5	228; 2064; 2562; 3723; 3808
BsiHKCI	C!YCGRG	1	1
BsiSI	C!CGG	18	135; 369; 718; 945; 1181; 1223; 1351; 1890; 1924; 2451; 2598; 2624; 2814; 3218; 3252; 3319; 3429; 3671
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	10	255; 534; 600; 743; 1458; 1895; 2266; 2284; 2450; 2729
BsIFI	GGGACNNNNNNNNNN!	0	
BsIFI	!NNNNNNNNNNNNNGTCCC	0	
BsmI	GAATGCN!	2	1219; 1626
BsmI	G!CATTC	0	
BsmAI	GTCTCN!	2	1450; 3974
BsmAI	!NNNNNGAGAC	5	576; 666; 765; 1887; 3198
BsmBI	CGTCTCN!	1	1450
BsmBI	!NNNNNGAGACG	2	576; 1887
BsmFI	GGGACNNNNNNNNNN!	0	
BsmFI	!NNNNNNNNNNNNNGTCCC	0	
BsnI	GG!CC	22	295; 538; 573; 607; 630; 652; 762; 804; 849; 1139; 1184; 1406; 1493; 1770; 2259; 2270; 2288; 2722; 3180; 3260; 3527; 4114
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	666; 765; 3198
BsoBI	C!YCGRG	1	1
Bsp13I	T!CCGGA	1	1222
Bsp19I	C!CATGG	2	145; 1527
Bsp24I	GACNNNNNTGGNNNNNNNNNNNN!	2	2769; 2947
Bsp24I	!NNNNNNCCANNNNNNNGTC	1	4041
Bsp24I	CCANNNNNNGTCTNNNNNNNNNNNN!	1	4073
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	2737; 2915
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	0	
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	18	120; 126; 658; 684; 888; 2810; 2885; 2896; 2904; 2982; 2994; 3099; 3440; 3458; 3504; 3762; 3779; 3815
Bsp1286I	GDGCH!C	8	201; 228; 261; 1697; 2064; 2562; 3723; 3808
Bsp1407I	T!GTACA	1	187

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Bsp1720I	GC!TNAGC	1	866
BspACI	C!CGC	25	457; 595; 697; 850; 942; 1204; 1568; 1824; 1827; 2084; 2110; 2127; 2289; 2317; 2444; 2463; 2584; 2829; 3200; 3291; 3528; 3693; 3770; 3879; 4025
BspACI	G!CGG	21	36; 68; 292; 604; 646; 846; 1662; 1917; 1956; 1966; 2008; 2033; 2071; 2170; 2177; 2198; 2694; 2838; 3482; 3649; 3978
BspCNI	CTCAGNNNNNNNN!	6	916; 1460; 1766; 2532; 2941; 3107
BspCNI	!NNNNNNNCTGAG	5	395; 858; 1801; 2046; 3626
BspDI	AT!CGAT	0	
BspD6I	GACTCNNNN!	4	883; 1725; 2152; 3140
BspD6I	!NNNNNNGAGTC	2	417; 2608
BspEI	T!CCGGA	1	1222
BspFNI	CG!CG	8	1845; 1847; 1950; 2291; 2872; 3202; 3695; 4027
BspHI	T!CATGA	3	2964; 3972; 4077
BspLI	GGN!NCC	12	128; 200; 260; 651; 1694; 2276; 2315; 3087; 3181; 3222; 3433; 4023
BspMI	ACCTGCNNNN!	0	
BspMI	!NNNNNNNNGCAGGT	0	
BspOI	GCTAG!C	1	978
BspPI	GGATCNNNN!	4	128; 2893; 2990; 3770
BspPI	!NNNNNGATCC	8	121; 679; 883; 2805; 2891; 2989; 3453; 3774
BspQI	GCTCTCN!	1	2128
BspQI	!NNNNGAAGAGC	0	
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	0	
BspT107I	G!GYRCC	4	198; 258; 1692; 3085
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	666; 765; 3198
BsrI	ACTGGN!	8	748; 821; 1033; 1770; 2024; 2652; 2665; 3613
BsrI	C!CAGT	8	892; 1473; 1991; 2777; 3183; 3301; 3344; 3783
BsrBI	CCG!CTC	1	1829
BsrBI	GAG!CGG	5	36; 68; 846; 2177; 3978
BsrDI	GCAATGNN!	2	1245; 3198
BsrDI	!CATTGC	1	3372
BsrFI	R!CCGGY	2	134; 3217
BsrGI	T!GTACA	1	187
BsrSI	ACTGGN!	8	748; 821; 1033; 1770; 2024; 2652; 2665; 3613
BsrSI	C!CAGT	8	892; 1473; 1991; 2777; 3183; 3301; 3344; 3783
BssAI	R!CCGGY	2	134; 3217
BssECI	C!CNNGG	8	145; 232; 463; 1457; 1458; 1527; 1706; 2404
BssHII	G!CGCGC	0	
BssKI	!CCNGG	18	319; 368; 463; 478; 607; 716; 944; 1401; 1457; 1705; 1888; 1923; 2270; 2391; 2404; 2622; 3318; 3669
BssMI	!GATC	18	120; 126; 658; 684; 888; 2810; 2885; 2896; 2904; 2982; 2994; 3099; 3440; 3458; 3504; 3762; 3779; 3815
BssNI	GR!CGYC	3	721; 3674; 4056
BssNAI	GTA!TAC	1	2017
BssSI	C!ACGAG	2	789; 4108
BssSI	C!TCGTG	3	639; 2417; 3801
BssT1I	C!CWWGG	2	145; 1527
Bst6I	CTCTCN!	2	2128; 3932
Bst6I	!NNNNGAAGAG	0	
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	1	2017
BstACI	GR!CGYC	3	721; 3674; 4056
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	1	2068
BstAUI	T!GTACA	1	187
BstBI	TT!CGAA	0	
Bst2BI	C!ACGAG	2	789; 4108
Bst2BI	C!TCGTG	3	639; 2417; 3801
BstBAI	YAC!GTR	1	1998
Bst4CI	ACN!GT	15	203; 1042; 1120; 1153; 1250; 1291; 1394; 1641; 1863; 1898; 2208; 2279; 2749; 3062; 3577
BstC8I	GCN!NGC	12	156; 246; 450; 854; 976; 1204; 1572; 2175; 2261; 2298; 2858; 3249

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstDEI	C!TNAG	13	403; 866; 903; 999; 1447; 1753; 1809; 2054; 2519; 2928; 3094; 3634; 4060
BstDSI	C!CRYGG	2	145; 1527
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	1	1925
BstF5I	!CATCC	7	228; 316; 373; 1219; 3116; 3297; 3584
BstFNI	CG!CG	8	1845; 1847; 1950; 2291; 2872; 3202; 3695; 4027
BstH2I	RGCGC!Y	3	826; 2122; 2492
BstHHI	GCG!C	16	618; 825; 1847; 1950; 1980; 2121; 2154; 2424; 2491; 2591; 2765; 2874; 3267; 3360; 3697; 4029
BstKTI	GAT!C	18	123; 129; 661; 687; 891; 2813; 2888; 2899; 2907; 2985; 2997; 3102; 3443; 3461; 3507; 3765; 3782; 3818
BstMAI	GTCTCN!	2	1450; 3974
BstMAI	!NNNNNGAGAC	5	576; 666; 765; 1887; 3198
BstMBI	!GATC	18	120; 126; 658; 684; 888; 2810; 2885; 2896; 2904; 2982; 2994; 3099; 3440; 3458; 3504; 3762; 3779; 3815
BstMCI	CGRY!CG	5	139; 850; 2584; 3507; 3656
BstMWI	GCNNNNN!NNGC	13	33; 182; 613; 862; 980; 1004; 1567; 2068; 2118; 2183; 2297; 2869; 3257
BstNI	CC!WGG	10	321; 465; 480; 609; 1403; 1459; 1707; 2272; 2393; 2406
BstNSI	RCATG!Y	4	176; 622; 1883; 2248
BstOI	CC!WGG	10	321; 465; 480; 609; 1403; 1459; 1707; 2272; 2393; 2406
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	777
BstSCI	!CCNGG	18	319; 368; 463; 478; 607; 716; 944; 1401; 1457; 1705; 1888; 1923; 2270; 2391; 2404; 2622; 3318; 3669
BstSFI	C!TRYAG	3	2509; 2700; 3378
BstSLI	GKGC!C	7	201; 228; 261; 1697; 2064; 2562; 3808
BstSNI	TAC!GTA	0	
BstUI	CG!CG	8	1845; 1847; 1950; 2291; 2872; 3202; 3695; 4027
Bst2UI	CC!WGG	10	321; 465; 480; 609; 1403; 1459; 1707; 2272; 2393; 2406
BstV1I	GCAGC!NNNNNNN!	7	355; 797; 1895; 1992; 2663; 2872; 3566
BstV1I	!NNNNNNNNNNNGCTGC	7	474; 1824; 2136; 2154; 2573; 3112; 3175
BstV2I	GAAGACNN!	1	445
BstV2I	!NNNNNNGTCTTC	1	4115
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	9	126; 684; 888; 2885; 2896; 2982; 2994; 3762; 3779
BstYI	R!GATCY	9	126; 684; 888; 2885; 2896; 2982; 2994; 3762; 3779
BstZI	C!GGCCG	1	847
BstZ17I	GTA!TAC	1	2017
BsuI	GTATCCNNNNNN!	0	
BsuI	!NNNNNGGATAC	2	2447; 3974
Bsu15I	AT!CGAT	0	
Bsu36I	CC!TNAGG	1	403
BsuRI	GG!CC	22	295; 538; 573; 607; 630; 652; 762; 804; 849; 1139; 1184; 1406; 1493; 1770; 2259; 2270; 2288; 2722; 3180; 3260; 3527; 4114
BsuTUI	AT!CGAT	0	
BtgI	C!CRYGG	2	145; 1527
BtgZI	GCGATGNNNNNNNNN!	1	1662
BtgZI	!NNNNNNNNNNNNNCATCGC	1	1305
BthCI	GCNG!C	28	295; 346; 490; 607; 788; 849; 852; 944; 1570; 1829; 1840; 1886; 1983; 2036; 2152; 2173; 2291; 2446; 2589; 2654; 2657; 2863; 3128; 3191; 3530; 3557; 3652; 3881
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	1	3537
BtsI	!CACTGC	1	3557
BtsCI	GGATGNN!	1	1925
BtsCI	!CATCC	7	228; 316; 373; 1219; 3116; 3297; 3584
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	0	
BveI	!NNNNNNNNNGCAGGT	0	
Cac8I	GCN!NGC	12	156; 246; 450; 854; 976; 1204; 1572; 2175; 2261; 2298; 2858; 3249

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CaiI	CAGNNN!CTG	1	2660
CciI	T!CATGA	3	2964; 3972; 4077
CciNI	GC!GGCCGC	1	847
CdiI	CATC!G	3	1064; 1323; 3388
CdiI	C!GATG	4	586; 767; 1648; 3789
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	2033
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	1	2296
CelII	GC!TNAGC	1	866
CfoI	GCG!C	16	618; 825; 1847; 1950; 1980; 2121; 2154; 2424; 2491; 2591; 2765; 2874; 3267; 3360; 3697; 4029
CfrI	Y!GGCCR	4	802; 847; 1491; 3525
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	2	134; 3217
Cfr13I	G!GNCC	11	294; 537; 629; 650; 734; 1768; 3179; 3258; 3275; 3497; 4113
Cfr42I	CCGC!GG	0	
ChaI	GATC!	18	124; 130; 662; 688; 892; 2814; 2889; 2900; 2908; 2986; 2998; 3103; 3444; 3462; 3508; 3766; 3783; 3819
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	240; 2090; 2296; 2851; 4074
CjeI	!NNNNNNNNNACNNNNNNNTGG	4	899; 2737; 2815; 2915
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	4	933; 2771; 2849; 2949
CjeI	!NNNNNNNNCCANNNNNNGT	5	206; 2056; 2262; 2817; 4040
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	2	2802; 4074
CjePI	!NNNNNNNNGANNNNNNNNTGG	4	2737; 2915; 3035; 3507
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	4	2770; 2948; 3068; 3540
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	2769; 4041
ClaI	AT!CGAT	0	
CpoI	CG!GWCCG	0	
CseI	GACGCNNNNN!	2	2355; 2933
CseI	!NNNNNNNNNNNGCGTC	3	710; 1939; 3663
CsiI	A!CCWGGT	0	
CspI	CG!GWCCG	0	
Csp6I	G!TAC	7	188; 338; 590; 1104; 1642; 2051; 3616
Csp45I	TT!CGAA	0	
CspAI	A!CCGGT	1	134
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	3	190; 781; 2123
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	1	3471
CviAII	C!ATG	23	146; 173; 179; 191; 269; 335; 415; 619; 626; 1298; 1528; 1589; 1610; 1880; 1985; 2245; 2965; 3456; 3466; 3544; 3580; 3973; 4078
CviJI	RG!CY	73	158; 185; 248; 295; 324; 331; 409; 475; 487; 531; 538; 565; 573; 607; 630; 638; 652; 762; 798; 804; 849; 856; 865; 870; 974; 978; 998; 1007; 1126; 1139; 1184; 1255; 1406; 1451; 1493; 1605; 1726; 1752; 1770; 1837; 1886; 1905; 1938; 1983; 2023; 2167; 2186; 2259; 2270; 2288; 2314; 2412; 2548; 2553; 2578; 2657; 2722; 2733; 2776; 2805; 3125; 3168; 3180; 3221; 3247; 3251; 3260; 3326; 3416; 3426; 3489; 3527; 4114
CviKI-1	RG!CY	73	158; 185; 248; 295; 324; 331; 409; 475; 487; 531; 538; 565; 573; 607; 630; 638; 652; 762; 798; 804; 849; 856; 865; 870; 974; 978; 998; 1007; 1126; 1139; 1184; 1255; 1406; 1451; 1493; 1605; 1726; 1752; 1770; 1837; 1886; 1905; 1938; 1983; 2023; 2167; 2186; 2259; 2270; 2288; 2314; 2412; 2548; 2553; 2578; 2657; 2722; 2733; 2776; 2805; 3125; 3168; 3180; 3221; 3247; 3251; 3260; 3326; 3416; 3426; 3489; 3527; 4114
CviQI	G!TAC	7	188; 338; 590; 1104; 1642; 2051; 3616
DdeI	C!TNAG	13	403; 866; 903; 999; 1447; 1753; 1809; 2054; 2519; 2928; 3094; 3634; 4060
DinI	GGC!GCC	0	
DpnI	GA!TC	18	122; 128; 660; 686; 890; 2812; 2887; 2898; 2906; 2984; 2996; 3101; 3442; 3460; 3506; 3764; 3781; 3817
DpnII	!GATC	18	120; 126; 658; 684; 888; 2810; 2885; 2896; 2904; 2982; 2994; 3099; 3440; 3458; 3504; 3762; 3779; 3815
DraI	TTT!AAA	5	1146; 1485; 3003; 3022; 3714
DraII	RG!GNCCY	1	4113

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DraII	CACNNN!GTG	1	794
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	1	385
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCTTG	1	2688
DrdI	GACNNN!NNGTC	2	1939; 2352
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	1	3137
DseDI	GACNNN!NNGTC	2	1939; 2352
EaeI	Y!GGCCR	4	802; 847; 1491; 3525
EagI	C!GGCCG	1	847
Eam1104I	CTCTCN!	2	2128; 3932
Eam1104I	!NNNNGAAGAG	0	
Eam1105I	GACNNN!NNGTC	1	3137
EarI	CTCTCN!	2	2128; 3932
EarI	!NNNNGAAGAG	0	
EciI	GGCGGANNNNNNNNNNNN!	0	
EciI	!NNNNNNNNNTCCGCC	4	1813; 2306; 2452; 3280
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	1	847
Eco24I	GRGCY!C	0	
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	3	666; 765; 3198
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	734; 3275; 3497
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	1	847
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	2	654; 2792
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	3804
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	1	403
Eco88I	C!YCGRG	1	1
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	2	145; 1527
Eco147I	AGG!CCT	1	573
EcoHI	!CCSGG	8	368; 716; 944; 1888; 1923; 2622; 3318; 3669
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	3	654; 1348; 2792
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	462; 3207; 3804
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4113
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	10	319; 463; 478; 607; 1401; 1457; 1705; 2270; 2391; 2404
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	2	145; 1527
EcoT22I	ATGCA!T	0	
EcoT38I	GRGCY!C	0	
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	0	
EheI	GGC!GCC	0	
ErhI	C!CWWGG	2	145; 1527
EsaBC3I	TC!GA	7	3; 287; 314; 782; 1759; 2345; 3789
Esp3I	CGTCTCN!	1	1450
Esp3I	!NNNNGAGACG	2	576; 1887
FaeI	CATG!	23	149; 176; 182; 194; 272; 338; 418; 622; 629; 1301; 1531; 1592; 1613; 1883; 1988; 2248; 2968; 3459; 3469; 3547; 3583; 3976; 4081
Fail	YA!TR	57	12; 49; 114; 147; 174; 180; 192; 270; 336; 416; 434; 620; 627; 680; 1035; 1049; 1110; 1235; 1264; 1299; 1367; 1369; 1436; 1499; 1529; 1542; 1590; 1611; 1881; 1986; 2017; 2031; 2067; 2069; 2246; 2310; 2383; 2688; 2966; 3038; 3040; 3042; 3122; 3413; 3457; 3467; 3545; 3551; 3564; 3581; 3647; 3702; 3923; 3974; 3986; 4079; 4092
FaII	AAGNNNNNCTNNNNNNNNNNNN!	1	413
FaII	!NNNNNNNAAGNNNNNCTT	1	381

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FaqI	GGGACNNNNNNNNNN!	0	
FaqI	!NNNNNNNNNNNNNGTCCC	0	
FatI	!CATG	23	145; 172; 178; 190; 268; 334; 414; 618; 625; 1297; 1527; 1588; 1609; 1879; 1984; 2244; 2964; 3455; 3465; 3543; 3579; 3972; 4077
FauI	CCC GCNNNN!	3	602; 704; 1211
FauI	!NNNNNNGCGGG	3	639; 1655; 1949
FauNDI	CA!TATG	1	2067
FbaI	T!GATCA	0	
FblI	GT!MKAC	2	724; 2016
FmuI	GGNC!C	11	297; 540; 632; 653; 737; 1771; 3182; 3261; 3278; 3500; 4116
Fnu4HI	GC!NGC	28	293; 344; 488; 605; 786; 847; 850; 942; 1568; 1827; 1838; 1884; 1981; 2034; 2150; 2171; 2289; 2444; 2587; 2652; 2655; 2861; 3126; 3189; 3528; 3555; 3650; 3879
FokI	GGATGNNNNNNNN!	1	1932
FokI	!NNNNNNNNNNNNCATCC	7	215; 303; 360; 1206; 3103; 3284; 3571
FriOI	GRGCY!C	0	
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3359
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	6	975; 1723; 1832; 2739; 2992; 3327
FspEI	CCNNNNNNNNNNNN!	124	13; 143; 158; 190; 215; 245; 262; 276; 309; 323; 341; 365; 379; 410; 443; 470; 485; 504; 540; 587; 606; 621; 644; 666; 681; 701; 720; 750; 776; 818; 863; 892; 915; 955; 983; 1051; 1066; 1120; 1153; 1194; 1216; 1236; 1292; 1310; 1352; 1415; 1465; 1486; 1507; 1528; 1581; 1606; 1622; 1709; 1784; 1821; 1837; 1854; 1884; 1902; 1937; 1952; 1997; 2078; 2097; 2123; 2140; 2227; 2273; 2291; 2321; 2335; 2384; 2405; 2428; 2442; 2457; 2471; 2486; 2557; 2580; 2597; 2611; 2632; 2658; 2736; 2790; 2827; 2842; 2913; 3004; 3080; 3102; 3133; 3149; 3186; 3213; 3231; 3257; 3274; 3291; 3307; 3332; 3357; 3385; 3442; 3475; 3505; 3541; 3597; 3637; 3669; 3683; 3706; 3783; 3810; 3853; 3892; 3944; 4038; 4052; 4081; 4102; 4128
FspEI	!NNNNNNNNNNNNNNGG	122	21; 53; 84; 103; 132; 150; 177; 219; 240; 264; 306; 325; 354; 390; 427; 450; 469; 492; 520; 547; 586; 612; 631; 703; 729; 777; 802; 820; 857; 901; 920; 944; 965; 986; 1014; 1042; 1064; 1112; 1166; 1208; 1233; 1312; 1336; 1367; 1388; 1444; 1475; 1514; 1533; 1556; 1587; 1639; 1665; 1692; 1715; 1734; 1752; 1779; 1799; 1837; 1875; 1902; 1929; 1948; 1993; 2018; 2056; 2083; 2101; 2141; 2162; 2180; 2208; 2241; 2270; 2296; 2344; 2378; 2436; 2462; 2497; 2516; 2534; 2583; 2609; 2633; 2653; 2676; 2701; 2728; 2772; 2799; 2817; 2868; 2900; 2937; 2965; 3037; 3068; 3145; 3203; 3237; 3258; 3304; 3366; 3393; 3414; 3467; 3509; 3530; 3594; 3634; 3656; 3714; 3745; 3834; 3853; 3872; 3944; 3963; 4002; 4084
Fsp4HI	GC!NGC	28	293; 344; 488; 605; 786; 847; 850; 942; 1568; 1827; 1838; 1884; 1981; 2034; 2150; 2171; 2289; 2444; 2587; 2652; 2655; 2861; 3126; 3189; 3528; 3555; 3650; 3879
GdiII	C!GGCCR	1	847
GdiII	Y!GGCCG	2	847; 3525
GlaI	GC!GC	16	617; 824; 1846; 1949; 1979; 2120; 2153; 2423; 2490; 2590; 2764; 2873; 3266; 3359; 3696; 4028
GluI	GC!NGC	28	293; 344; 488; 605; 786; 847; 850; 942; 1568; 1827; 1838; 1884; 1981; 2034; 2150; 2171; 2289; 2444; 2587; 2652; 2655; 2861; 3126; 3189; 3528; 3555; 3650; 3879
GsaI	CCCAG!C	1	531
GsaI	GCTGG!G	2	569; 2552
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	1348
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	462; 3207
HaeI	WGG!CCW	7	573; 804; 1406; 1493; 2259; 2270; 2722
HaeII	RGCGC!Y	3	826; 2122; 2492
HaeIII	GG!CC	22	295; 538; 573; 607; 630; 652; 762; 804; 849; 1139; 1184; 1406; 1493; 1770; 2259; 2270; 2288; 2722; 3180; 3260; 3527; 4114
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	1	3156
HaeIV	!NNNNNNNNNGAYNNNNNRTC	1	3122
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	1	3155
HaeIV	!NNNNNNNGAYNNNNNRTC	1	3124

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HapII	C!CGG	18	135; 369; 718; 945; 1181; 1223; 1351; 1890; 1924; 2451; 2598; 2624; 2814; 3218; 3252; 3319; 3429; 3671
HgaI	GACGCNNNNN!	2	2355; 2933
HgaI	!NNNNNNNNNNNGCGTC	3	710; 1939; 3663
HhaI	GCG!C	16	618; 825; 1847; 1950; 1980; 2121; 2154; 2424; 2491; 2591; 2765; 2874; 3267; 3360; 3697; 4029
HinI	GR!CGYC	3	721; 3674; 4056
Hin1II	CATG!	23	149; 176; 182; 194; 272; 338; 418; 622; 629; 1301; 1531; 1592; 1613; 1883; 1988; 2248; 2968; 3459; 3469; 3547; 3583; 3976; 4081
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1233; 3155; 3229
Hin4I	!NNNNNNNNNGABNNNNNNRTC	1	3123
Hin4I	GABNNNNNNRTCNNNNNNNNNNNN!	1	3155
Hin4I	!NNNNNNNNNGAYNNNNNVTC	3	1201; 3123; 3197
Hin6I	G!CGC	16	616; 823; 1845; 1948; 1978; 2119; 2152; 2422; 2489; 2589; 2763; 2872; 3265; 3358; 3695; 4027
HinP1I	G!CGC	16	616; 823; 1845; 1948; 1978; 2119; 2152; 2422; 2489; 2589; 2763; 2872; 3265; 3358; 3695; 4027
HincII	GTY!RAC	0	
HindII	GTY!RAC	0	
HindIII	A!AGCTT	1	854
HinfI	G!ANTC	12	55; 274; 424; 751; 875; 966; 1576; 1717; 2144; 2219; 2615; 3132
HpaI	GTT!AAC	0	
HpaII	C!CGG	18	135; 369; 718; 945; 1181; 1223; 1351; 1890; 1924; 2451; 2598; 2624; 2814; 3218; 3252; 3319; 3429; 3671
HphI	GGTGANNNNNNN!	11	161; 530; 840; 973; 1262; 1406; 1474; 1808; 1866; 3623; 3864
HphI	!NNNNNNNTCACC	8	419; 1268; 1462; 1516; 2980; 3207; 3829; 4118
Hpy8I	GTN!NAC	12	206; 226; 521; 725; 734; 1276; 1799; 2017; 2062; 2560; 3048; 3806
Hpy99I	CGWCG!	7	288; 768; 783; 1346; 2349; 3143; 3406
Hpy166II	GTN!NAC	12	206; 226; 521; 725; 734; 1276; 1799; 2017; 2062; 2560; 3048; 3806
Hpy188I	TCN!GA	13	233; 906; 928; 1875; 2041; 2358; 2436; 2789; 2923; 3058; 3504; 3515; 3635
Hpy188III	TC!NNGA	19	3; 124; 710; 916; 993; 1223; 1327; 1808; 1832; 2478; 2612; 2710; 2808; 2891; 2965; 3224; 3973; 4078; 4108
HpyAV	CCTTCNNNNNN!	6	314; 362; 407; 2484; 2794; 3502
HpyAV	!NNNNNGAAGG	5	234; 606; 2736; 3249; 3861
HpyCH4III	ACN!GT	15	203; 1042; 1120; 1153; 1250; 1291; 1394; 1641; 1863; 1898; 2208; 2279; 2749; 3062; 3577
HpyCH4IV	A!CGT	10	502; 730; 778; 1313; 1488; 1997; 2947; 3363; 3736; 4056
HpyCH4V	TG!CA	12	226; 548; 664; 1883; 2062; 2560; 2856; 3191; 3281; 3474; 3562; 3806
HpyF3I	C!TNAG	13	403; 866; 903; 999; 1447; 1753; 1809; 2054; 2519; 2928; 3094; 3634; 4060
HpyF10VI	GCNNNNN!NNGC	13	33; 182; 613; 862; 980; 1004; 1567; 2068; 2118; 2183; 2297; 2869; 3257
Hsp92I	GR!CGYC	3	721; 3674; 4056
Hsp92II	CATG!	23	149; 176; 182; 194; 272; 338; 418; 622; 629; 1301; 1531; 1592; 1613; 1883; 1988; 2248; 2968; 3459; 3469; 3547; 3583; 3976; 4081
HspAI	G!CGC	16	616; 823; 1845; 1948; 1978; 2119; 2152; 2422; 2489; 2589; 2763; 2872; 3265; 3358; 3695; 4027
KasI	G!GCGCC	0	
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1222
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	0	
Kzo9I	!GATC	18	120; 126; 658; 684; 888; 2810; 2885; 2896; 2904; 2982; 2994; 3099; 3440; 3458; 3504; 3762; 3779; 3815
LguI	GCTTTCN!	1	2128
LguI	!NNNNGAAGAGC	0	
LpnI	RGC!GCV	3	824; 2120; 2490

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	CCDGNNNNNNNNN!	50	148; 276; 333; 382; 415; 477; 492; 541; 621; 645; 669; 731; 818; 892; 958; 1127; 1194; 1220; 1236; 1364; 1415; 1471; 1486; 1719; 1821; 1903; 1937; 2004; 2273; 2337; 2405; 2442; 2464; 2611; 2637; 2790; 2827; 3142; 3196; 3231; 3257; 3291; 3314; 3332; 3357; 3442; 3684; 3796; 3853; 4065
LpnPI	!NNNNNNNNNNNNCHGG	53	120; 306; 354; 450; 551; 594; 703; 729; 802; 901; 930; 978; 1014; 1112; 1166; 1208; 1241; 1312; 1336; 1388; 1444; 1556; 1643; 1692; 1751; 1875; 1909; 1929; 2005; 2101; 2208; 2257; 2282; 2361; 2391; 2436; 2534; 2583; 2609; 2633; 2653; 2799; 2817; 3162; 3203; 3237; 3304; 3366; 3414; 3594; 3656; 3834; 3944
Lsp1109I	GCAGCNNNNNNNN!	7	355; 797; 1895; 1992; 2663; 2872; 3566
Lsp1109I	!NNNNNNNNNNNGCTGC	7	474; 1824; 2136; 2154; 2573; 3112; 3175
LweI	GCATCNNNNN!	8	382; 1069; 1742; 2045; 2121; 2341; 3393; 3833
LweI	!NNNNNNNNNGATGC	6	535; 703; 1554; 1910; 2081; 3584
MabI	A!CCWGGT	0	
MaeI	C!TAG	6	975; 1723; 1832; 2739; 2992; 3327
MaeII	A!CGT	10	502; 730; 778; 1313; 1488; 1997; 2947; 3363; 3736; 4056
MaeIII	!GTNAC	14	425; 621; 1283; 1388; 1898; 1993; 2600; 2663; 2779; 3062; 3393; 3451; 3604; 3792
MaiI	GA!TC	18	122; 128; 660; 686; 890; 2812; 2887; 2898; 2906; 2984; 2996; 3101; 3442; 3460; 3506; 3764; 3781; 3817
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	1	1829
MbiI	GAG!CGG	5	36; 68; 846; 2177; 3978
MboI	!GATC	18	120; 126; 658; 684; 888; 2810; 2885; 2896; 2904; 2982; 2994; 3099; 3440; 3458; 3504; 3762; 3779; 3815
MboII	GAAGANNNNNNNNN!	3	450; 563; 2906
MboII	!NNNNNNNTCTTC	7	1501; 2115; 2977; 3732; 3810; 3919; 4115
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	59
MflI	R!GATCY	9	126; 684; 888; 2885; 2896; 2982; 2994; 3762; 3779
MhII	GDGCH!C	8	201; 228; 261; 1697; 2064; 2562; 3723; 3808
MisI	TGG!CCA	2	804; 1493
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	804; 1493
MlyI	GAGTCNNNNN!	2	433; 2624
MlyI	!NNNNNGACTC	4	869; 1711; 2138; 3126
Mly113I	GG!CGCC	0	
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	2	2459; 2643
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	0	
MnII	CCTCNNNNNNN!	14	10; 307; 376; 486; 501; 584; 717; 912; 1851; 1881; 2143; 2426; 3304; 3510
MnII	!NNNNNGAGG	19	92; 111; 188; 227; 248; 281; 398; 507; 563; 752; 785; 828; 1072; 1723; 2352; 2676; 3076; 3157; 4104
Mph1103I	ATGCA!T	0	
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1222
MroNI	G!CCGGC	0	
MroXI	GAANN!NNTTC	1	3736
MscI	TGG!CCA	2	804; 1493
MseI	T!TAA	19	108; 163; 388; 858; 1145; 1484; 1626; 1678; 1699; 2025; 2950; 3002; 3007; 3021; 3074; 3309; 3348; 3713; 4085
MslI	CAYNN!NNRTG	5	147; 177; 3389; 3548; 3907
MspI	C!CGG	18	135; 369; 718; 945; 1181; 1223; 1351; 1890; 1924; 2451; 2598; 2624; 2814; 3218; 3252; 3319; 3429; 3671
Msp20I	TGG!CCA	2	804; 1493
MspA1I	CMG!CKG	7	597; 1126; 1570; 1956; 2586; 2831; 3772
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	204	13; 49; 81; 94; 136; 158; 171; 185; 203; 233; 251; 266; 281; 299; 332; 347; 371; 390; 414; 427; 443; 461; 475; 491; 504; 518; 539; 552; 573; 592; 606; 620; 638; 651; 668; 681; 695; 708; 722; 743; 756; 775; 794; 817; 838; 863; 878; 891; 904; 917; 939; 957; 982; 996; 1011; 1041; 1065; 1110; 1126; 1139; 1165; 1181; 1205; 1219; 1235; 1268; 1293; 1310; 1339; 1352; 1376; 1398; 1414; 1427; 1459; 1485; 1501; 1529; 1546; 1559; 1574; 1592; 1622; 1637; 1670; 1710; 1735; 1749; 1765; 1778; 1820; 1844; 1858; 1886; 1901; 1918; 1936; 1951; 1969; 1986; 2002; 2021; 2036; 2052; 2066; 2097; 2123; 2146; 2167; 2186; 2199; 2227; 2245; 2265; 2283; 2302; 2321; 2336; 2350; 2364; 2378; 2404; 2417; 2431; 2447; 2463; 2490; 2508; 2531; 2556; 2573; 2591; 2605; 2624; 2645; 2660; 2673; 2689; 2715; 2735; 2751; 2783; 2800; 2820; 2834; 2869; 2883; 2901; 2928; 2950; 2977; 3003; 3043; 3063; 3079; 3101; 3133; 3149; 3173; 3189; 3213; 3226; 3256; 3273; 3290; 3313; 3331; 3356; 3371; 3393; 3408; 3441; 3456; 3476; 3515; 3541; 3554; 3575; 3592; 3621; 3636; 3668; 3682; 3695; 3711; 3734; 3756; 3769; 3795; 3809; 3822; 3852; 3870; 3884; 3915; 3932; 3971; 3985; 4025; 4038; 4051; 4064; 4090; 4115
MspJI	!NNNNNNNNNNNNNYNG	172	10; 49; 99; 121; 141; 159; 177; 207; 231; 249; 273; 292; 314; 345; 364; 388; 421; 450; 492; 514; 547; 567; 594; 612; 629; 647; 675; 696; 717; 741; 763; 786; 803; 829; 848; 865; 890; 907; 931; 949; 966; 986; 1015; 1062; 1100; 1121; 1151; 1185; 1208; 1238; 1267; 1284; 1312; 1336; 1358; 1377; 1415; 1434; 1459; 1484; 1503; 1529; 1557; 1575; 1596; 1632; 1649; 1676; 1693; 1713; 1740; 1760; 1780; 1800; 1818; 1837; 1859; 1876; 1896; 1921; 1939; 1959; 1977; 2006; 2025; 2054; 2079; 2101; 2120; 2137; 2155; 2191; 2208; 2231; 2257; 2276; 2297; 2315; 2338; 2357; 2378; 2403; 2420; 2437; 2462; 2491; 2510; 2531; 2556; 2574; 2598; 2619; 2647; 2668; 2696; 2715; 2739; 2763; 2785; 2818; 2835; 2855; 2877; 2900; 2932; 2951; 2978; 3027; 3064; 3081; 3115; 3140; 3162; 3187; 3204; 3230; 3248; 3276; 3305; 3326; 3343; 3367; 3386; 3409; 3430; 3452; 3472; 3499; 3530; 3566; 3588; 3611; 3632; 3652; 3669; 3715; 3745; 3763; 3787; 3807; 3826; 3850; 3880; 3944; 3961; 3986; 4003; 4024; 4047; 4064; 4085; 4105
MspR9I	CC!NGG	18	321; 370; 465; 480; 609; 718; 946; 1403; 1459; 1707; 1890; 1925; 2272; 2393; 2406; 2624; 3320; 3671
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	59
MvaI	CC!WGG	10	321; 465; 480; 609; 1403; 1459; 1707; 2272; 2393; 2406
MvaI269I	GAATGCN!	2	1219; 1626
MvaI269I	G!CATTC	0	
MvnI	CG!CG	8	1845; 1847; 1950; 2291; 2872; 3202; 3695; 4027
MvrI	CGAT!CG	1	3507
MwoI	GCNNNNN!NNGC	13	33; 182; 613; 862; 980; 1004; 1567; 2068; 2118; 2183; 2297; 2869; 3257
NaeI	GCC!GGC	0	
NarI	GG!CGCC	0	
NciI	CC!SGG	8	370; 718; 946; 1890; 1925; 2624; 3320; 3671
NcoI	C!CATGG	2	145; 1527
NdeI	CA!TATG	1	2067
NdeII	!GATC	18	120; 126; 658; 684; 888; 2810; 2885; 2896; 2904; 2982; 2994; 3099; 3440; 3458; 3504; 3762; 3779; 3815
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	3	265; 3383; 3608
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNNNN!	3	301; 3419; 3644
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	0	
NheI	G!CTAGC	1	974
NlaIII	CATG!	23	149; 176; 182; 194; 272; 338; 418; 622; 629; 1301; 1531; 1592; 1613; 1883; 1988; 2248; 2968; 3459; 3469; 3547; 3583; 3976; 4081
NlaIV	GGN!NCC	12	128; 200; 260; 651; 1694; 2276; 2315; 3087; 3181; 3222; 3433; 4023
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	1	2357
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	525; 811; 1581; 1837
Nli3877I	CYCGR!G	1	5
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	1	3286

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmeAIII	!NNNNNNNNNNNNNNNNNNNNCTCGGC	1	541
NmeDI	RCCGGYNNNNNNNN!	2	146; 3229
NmeDI	!NNNNNNNNNNNNRCCGGY	2	121; 3204
NmuCI	!GTSAC	6	425; 621; 1898; 1993; 3393; 3604
NotI	GC!GGCCGC	1	847
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3359
NsiI	ATGCA!T	0	
NspI	RCATG!Y	4	176; 622; 1883; 2248
NspV	TT!CGAA	0	
OliI	CACNN!NNGTG	1	147
PabI	GTA!C	7	190; 340; 592; 1106; 1644; 2053; 3618
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	0	
PaeR7I	C!TCGAG	1	1
PagI	T!CATGA	3	2964; 3972; 4077
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	1	1458
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	573
PciI	A!CATGT	1	2244
PciSI	GCTCTCN!	1	2128
PciSI	!NNNNGAAGAGC	0	
PcsI	WCGNNNN!NNNCGW	4	787; 2170; 2568; 3445
PctI	GAATGCN!	2	1219; 1626
PctI	G!CATTC	0	
PdiI	GCC!GGC	0	
PdmI	GAANN!NNTTC	1	3736
PfeI	G!AWTC	6	55; 274; 751; 966; 1576; 2219
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	1991
PfIMI	CCANNNN!NTGG	2	743; 1458
PfoI	T!CCNGGA	2	478; 1888
PhoI	GG!CC	22	295; 538; 573; 607; 630; 652; 762; 804; 849; 1139; 1184; 1406; 1493; 1770; 2259; 2270; 2288; 2722; 3180; 3260; 3527; 4114
PinAI	A!CCGGT	1	134
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	2	2063; 2139
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	1188; 1542
PleI	GAGTCNNNN!	2	432; 2623
PleI	!NNNNNGACTC	4	869; 1711; 2138; 3126
Ple19I	CGAT!CG	1	3507
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	2959
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3769
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3801
PpiI	!NNNNNNNGAACNNNNNCTC	1	2927
PpsI	GAGTCNNNN!	2	432; 2623
PpsI	!NNNNNGACTC	4	869; 1711; 2138; 3126
Ppu10I	A!TGCAT	0	
Ppu21I	YAC!GTR	1	1998
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	2244
PshAI	GACNN!NNGTC	1	777
PshBI	AT!TAAT	1	3309
PsiI	TTA!TAA	1	49
Psp03I	GGWC!C	3	737; 3278; 3500
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	10	319; 463; 478; 607; 1401; 1457; 1705; 2270; 2391; 2404
Psp1406I	AA!CGTT	3	1313; 3363; 3736
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspGI	!CCWGG	10	319; 463; 478; 607; 1401; 1457; 1705; 2270; 2391; 2404
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	12	128; 200; 260; 651; 1694; 2276; 2315; 3087; 3181; 3222; 3433; 4023
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	0	
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	0	
PspPI	G!GNCC	11	294; 537; 629; 650; 734; 1768; 3179; 3258; 3275; 3497; 4113
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	2	922; 3201
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	389; 1693
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4116
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	1	2660
PsuI	R!GATCY	9	126; 684; 888; 2885; 2896; 2982; 2994; 3762; 3779
PsyI	GACN!NNGTC	1	1991
PteI	G!CGCGC	0	
PvuI	CGAT!CG	1	3507
PvuII	CAG!CTG	1	1126
RcaI	T!CATGA	3	2964; 3972; 4077
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	0	
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	0	
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	7	189; 339; 591; 1105; 1643; 2052; 3617
RsaNI	G!TAC	7	188; 338; 590; 1104; 1642; 2051; 3616
RseI	CAYNN!NNRTG	5	147; 177; 3389; 3548; 3907
RsrII	CG!GWCCG	0	
Rsr2I	CG!GWCCG	0	
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	1	2128
SapI	!NNNNGAAGAGC	0	
SaqAI	T!TAA	19	108; 163; 388; 858; 1145; 1484; 1626; 1678; 1699; 2025; 2950; 3002; 3007; 3021; 3074; 3309; 3348; 3713; 4085
SatI	GC!NGC	28	293; 344; 488; 605; 786; 847; 850; 942; 1568; 1827; 1838; 1884; 1981; 2034; 2150; 2171; 2289; 2444; 2587; 2652; 2655; 2861; 3126; 3189; 3528; 3555; 3650; 3879
Sau96I	G!GNCC	11	294; 537; 629; 650; 734; 1768; 3179; 3258; 3275; 3497; 4113
Sau3AI	!GATC	18	120; 126; 658; 684; 888; 2810; 2885; 2896; 2904; 2982; 2994; 3099; 3440; 3458; 3504; 3762; 3779; 3815
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	2	1643; 3617
SchI	GAGTCNNNNN!	2	433; 2624
SchI	!NNNNNGACTC	4	869; 1711; 2138; 3126
SciI	CTC!GAG	1	3
ScrFI	CC!NGG	18	321; 370; 465; 480; 609; 718; 946; 1403; 1459; 1707; 1890; 1925; 2272; 2393; 2406; 2624; 3320; 3671
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	4	575; 1019; 3294; 3540
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	3	857; 1786; 2407
SdeOSI	GACNNNRTGANNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	1	3384
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	1	3418
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	8	201; 228; 261; 1697; 2064; 2562; 3723; 3808
SelI	!CGCG	8	1843; 1845; 1948; 2289; 2870; 3200; 3693; 4025
SetI	ASST!	61	2; 160; 187; 283; 333; 354; 505; 511; 640; 658; 670; 709; 733; 777; 781; 796; 839; 858; 867; 872; 904; 976; 980; 1000; 1009; 1109; 1128; 1257; 1316; 1404; 1491; 1560; 1584; 1728; 1839; 1873; 1888; 1907; 2000; 2188; 2363; 2414; 2460; 2516; 2535; 2550; 2687; 2786; 2807; 2950; 2993; 3091; 3127; 3328; 3366; 3428; 3491; 3739; 4054; 4059; 4091
SexAI	A!CCWGGT	0	
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	382; 1069; 1742; 2045; 2121; 2341; 3393; 3833
SfaNI	!NNNNNNNNNGATGC	6	535; 703; 1554; 1910; 2081; 3584
SfcI	C!TRYAG	3	2509; 2700; 3378
SfiI	GGCCNNNN!NGGCC	0	
SfoI	GGC!GCC	0	
Sfr274I	C!TCGAG	1	1
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	0	
SgeI	CNNGNNNNNNNNN!	155	13; 136; 158; 185; 203; 233; 257; 275; 290; 332; 347; 371; 390; 414; 427; 455; 476; 491; 518; 540; 573; 593; 606; 620; 638; 651; 668; 681; 701; 722; 743; 756; 794; 817; 838; 865; 883; 904; 928; 946; 983; 996; 1041; 1126; 1139; 1183; 1211; 1235; 1268; 1293; 1310; 1339; 1352; 1388; 1414; 1470; 1485; 1501; 1529; 1559; 1583; 1601; 1622; 1670; 1718; 1735; 1778; 1820; 1844; 1858; 1892; 1918; 1936; 1951; 1969; 1986; 2003; 2032; 2128; 2146; 2167; 2186; 2235; 2257; 2272; 2302; 2336; 2364; 2383; 2404; 2417; 2431; 2452; 2470; 2490; 2517; 2557; 2573; 2591; 2610; 2624; 2645; 2660; 2673; 2694; 2722; 2751; 2789; 2820; 2844; 2869; 2883; 2903; 2928; 2958; 2977; 3004; 3063; 3141; 3154; 3173; 3189; 3213; 3230; 3256; 3274; 3290; 3313; 3331; 3356; 3393; 3408; 3441; 3456; 3478; 3556; 3592; 3621; 3637; 3669; 3682; 3695; 3756; 3771; 3795; 3813; 3852; 3876; 3915; 3971; 3985; 4038; 4064; 4090; 4120
SgeI	!NNNNNNNNNNNNNCNNG	135	110; 132; 159; 177; 207; 231; 249; 273; 306; 345; 364; 388; 429; 450; 492; 514; 547; 567; 594; 612; 633; 655; 675; 696; 717; 741; 768; 791; 812; 839; 857; 878; 902; 920; 957; 979; 1015; 1100; 1157; 1185; 1209; 1242; 1267; 1284; 1313; 1337; 1362; 1388; 1444; 1475; 1503; 1533; 1557; 1575; 1596; 1644; 1692; 1709; 1752; 1794; 1818; 1866; 1892; 1910; 1930; 1953; 1971; 2006; 2102; 2120; 2141; 2160; 2209; 2231; 2257; 2276; 2310; 2338; 2357; 2378; 2403; 2426; 2444; 2464; 2491; 2531; 2556; 2584; 2609; 2634; 2654; 2696; 2725; 2763; 2794; 2818; 2843; 2877; 2902; 2932; 2951; 2978; 3037; 3115; 3147; 3169; 3187; 3204; 3230; 3248; 3287; 3305; 3330; 3367; 3386; 3415; 3435; 3452; 3530; 3566; 3595; 3643; 3669; 3730; 3769; 3787; 3826; 3850; 3889; 3945; 4012; 4038; 4064; 4094; 4116
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	1	2919
SimI	!GACCC	3	1987; 2436; 3205
SinI	G!GWCC	3	734; 3275; 3497
SlaI	C!TCGAG	1	1
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	147; 177; 3389; 3548; 3907
SmlI	C!TYRAG	8	1; 669; 708; 1727; 2350; 2612; 2889; 3757
SmoI	C!TYRAG	8	1; 669; 708; 1727; 2350; 2612; 2889; 3757
SmuI	CCCGCNNNN!	3	602; 704; 1211
SmuI	!NNNNNNNGCGGG	3	639; 1655; 1949
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	0	
SrfI	GCCC!GGGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sse9I	!AATT	13	17; 44; 59; 76; 88; 105; 859; 1226; 1631; 1670; 3004; 3310; 3565
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	573
SsiI	C!CGC	25	457; 595; 697; 850; 942; 1204; 1568; 1824; 1827; 2084; 2110; 2127; 2289; 2317; 2444; 2463; 2584; 2829; 3200; 3291; 3528; 3693; 3770; 3879; 4025
SsiI	G!CGG	21	36; 68; 292; 604; 646; 846; 1662; 1917; 1956; 1966; 2008; 2033; 2071; 2170; 2177; 2198; 2694; 2838; 3482; 3649; 3978
SspI	AAT!ATT	2	1538; 3941
SspDI	G!GCGCC	0	
SspD5I	GGTGANNNNNNNN!	11	161; 530; 840; 973; 1262; 1406; 1474; 1808; 1866; 3623; 3864
SspD5I	!NNNNNNNNNTCACC	8	418; 1267; 1461; 1515; 2979; 3206; 3828; 4117
SstI	GAGCT!C	0	
SstII	CCG!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	463
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	15	385; 601; 703; 724; 1210; 1524; 1896; 1946; 2378; 2577; 2586; 2630; 3144; 3677; 4045
Sth132I	!NNNNNNNNNCGGG	15	115; 361; 434; 638; 937; 1654; 1916; 1948; 1965; 2469; 2907; 3152; 3311; 3674; 3735
Sth302II	CC!GG	18	136; 370; 719; 946; 1182; 1224; 1352; 1891; 1925; 2452; 2599; 2625; 2815; 3219; 3253; 3320; 3430; 3672
StrI	C!TCGAG	1	1
StsI	GGATGNNNNNNNNNN!	1	1933
StsI	!NNNNNNNNNNNNNNNNCATCC	7	214; 302; 359; 1205; 3102; 3283; 3570
StuI	AGG!CCT	1	573
StyI	C!CWWGG	2	145; 1527
StyD4I	!CCNGG	18	319; 368; 463; 478; 607; 716; 944; 1401; 1457; 1705; 1888; 1923; 2270; 2391; 2404; 2622; 3318; 3669
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	203; 1042; 1120; 1153; 1250; 1291; 1394; 1641; 1863; 1898; 2208; 2279; 2749; 3062; 3577
TaiI	ACGT!	10	505; 733; 781; 1316; 1491; 2000; 2950; 3366; 3739; 4059
TaqI	T!CGA	7	2; 286; 313; 781; 1758; 2344; 3788
TaqII	GACCGANNNNNNNNNN!	1	3670
TaqII	!NNNNNNNNNTCGGTC	2	2146; 3485
TaqII	CACCCANNNNNNNNNN!	2	276; 3823
TaqII	!NNNNNNNNNTGGGTG	2	1450; 3840
TasI	!AATT	13	17; 44; 59; 76; 88; 105; 859; 1226; 1631; 1670; 3004; 3310; 3565
TatI	W!GTACW	4	187; 1641; 2050; 3615
TauI	GCSG!C	14	295; 607; 849; 852; 944; 1570; 1829; 2036; 2173; 2291; 2446; 3530; 3652; 3881
TfiI	G!AWTC	6	55; 274; 751; 966; 1576; 2219
TliI	C!TCGAG	1	1
TruII	T!TAA	19	108; 163; 388; 858; 1145; 1484; 1626; 1678; 1699; 2025; 2950; 3002; 3007; 3021; 3074; 3309; 3348; 3713; 4085
Tru9I	T!TAA	19	108; 163; 388; 858; 1145; 1484; 1626; 1678; 1699; 2025; 2950; 3002; 3007; 3021; 3074; 3309; 3348; 3713; 4085
TscAI	CASTGNN!	9	1033; 2146; 2652; 2665; 2936; 3085; 3190; 3537; 3564
TseI	G!CWGC	15	343; 487; 785; 1837; 1883; 1980; 2149; 2167; 2586; 2651; 2654; 2860; 3125; 3188; 3554
TsoI	TARCCANNNNNNNNNN!	1	1127
TsoI	!NNNNNNNNNTGGYTA	2	312; 3536
Tsp45I	!GTSAC	6	425; 621; 1898; 1993; 3393; 3604
Tsp509I	!AATT	13	17; 44; 59; 76; 88; 105; 859; 1226; 1631; 1670; 3004; 3310; 3565
TspDTI	ATGAANNNNNNNNNN!	5	195; 1226; 1256; 1644; 3028
TspDTI	!NNNNNNNNNTTCAT	6	323; 344; 1308; 1574; 3105; 3408
TspEI	!AATT	13	17; 44; 59; 76; 88; 105; 859; 1226; 1631; 1670; 3004; 3310; 3565
TspGWI	ACGGANNNNNNNNNN!	1	3919
TspGWI	!NNNNNNNNNTCCGT	1	3577
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	9	1033; 2146; 2652; 2665; 2936; 3085; 3190; 3537; 3564

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	CACNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	1991
Tth111II	CAARCANNNNNNNNNN!	3	375; 2834; 2873
Tth111II	!NNNNNNNNNTGYTTG	2	1778; 2841
UnbI	!GGNCC	11	293; 536; 628; 649; 733; 1767; 3178; 3257; 3274; 3496; 4112
Van9II	CCANNNN!NTGG	2	743; 1458
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	4	224; 2060; 2558; 3804
VpaK11AI	!GGWCC	3	733; 3274; 3496
VpaK11BI	G!GWCC	3	734; 3275; 3497
VspI	AT!TAAT	1	3309
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	2	17; 1226
XbaI	T!CTAGA	1	1831
XceI	RCATG!Y	4	176; 622; 1883; 2248
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1
XhoII	R!GATCY	9	126; 684; 888; 2885; 2896; 2982; 2994; 3762; 3779
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	0	
XmiI	GT!MKAC	2	724; 2016
XmnI	GAANN!NNTTC	1	3736
XspI	C!TAG	6	975; 1723; 1832; 2739; 2992; 3327
ZraI	GAC!GTC	1	4057
ZrmI	AGT!ACT	2	1643; 3617
Zsp2I	ATGCA!T	0	