

pTurboGFP-PRL vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	937; 1142
AarI	CACCTGCNNNN!	1	548
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1225; 2181; 3970
AatI	AGG!CCT	1	1975
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	58
AccII	CG!CG	18	69; 443; 599; 704; 803; 1078; 1454; 1474; 1498; 1529; 2220; 2521; 2959; 3043; 3106; 3175; 3448; 4029
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2256
Acc36I	ACCTGCNNNN!	4	275; 548; 2422; 2872
Acc36I	!NNNNNNNNGCAGGT	1	2041
Acc65I	G!GTACC	1	63
AccB1I	G!GYRCC	9	63; 151; 196; 244; 307; 469; 1307; 2153; 2188
AccB7I	CCANNNN!NTGG	1	282
AccBSI	CCG!CTC	2	1578; 2767
AccBSI	GAG!CGG	3	113; 1414; 2821
AceIII	CAGCTCNNNNNNN!	2	627; 1110
AceIII	!NNNNNNNNNNGAGCTG	2	163; 718
AciI	C!CGC	36	67; 122; 141; 213; 375; 426; 441; 516; 582; 699; 702; 801; 1469; 1472; 1486; 1576; 1824; 1836; 1845; 1857; 1867; 1878; 1924; 2063; 2126; 2628; 2673; 2739; 2765; 2890; 2893; 3041; 3173; 3480; 3624; 4120
AciI	G!CGG	29	69; 113; 185; 188; 320; 359; 398; 605; 797; 1414; 1441; 1529; 1639; 2220; 2284; 2385; 2388; 2668; 2723; 2821; 2959; 3106; 3246; 3489; 3734; 3855; 3874; 4001; 4029
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	86; 722; 2022; 2333; 2579; 2971; 3330; 3428; 3514
AclWI	!NNNNNGATCC	5	73; 2398; 2942; 3329; 3426
AcoI	Y!GGCCR	6	438; 798; 2060; 2234; 2625; 2652
AcsI	R!AATTY	4	47; 968; 1072; 1083
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	2	2300; 2732
AcuI	!NNNNNNNNNNNNNNCTTCAG	4	240; 402; 573; 3530
AcvI	CAC!GTG	2	279; 411
AcyI	GR!CGYC	4	245; 2154; 2856; 2935
AdeI	CACNNN!GTG	1	1270
AfaI	GT!AC	4	65; 388; 748; 2460
AfeI	AGC!GCT	1	14
AfiI	CCNNNNN!NNGG	19	207; 282; 432; 705; 1166; 1492; 1884; 2135; 2679; 2960; 2992; 3124; 3159; 3209; 3241; 3594; 3873; 4039; 4057
AflII	C!TTAAG	1	1036
AflIII	A!CRYGT	1	4072
AgeI	A!CCGGT	1	84
AgsI	TTS!AA	8	459; 645; 762; 1565; 1609; 1619; 2032; 3608
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	9	1688; 1743; 1760; 2539; 3118; 3221; 3911; 3924; 4045
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	1728; 1800
AlfI	!NNNNNNNNNNNGCANNNNNNTGC	2	1694; 1766
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1236
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1204
AluI	AG!CT	19	36; 42; 177; 416; 422; 575; 617; 732; 933; 1100; 1357; 1652; 1940; 2260; 2718; 3515; 3772; 3818; 3908
AluBI	AG!CT	19	36; 42; 177; 416; 422; 575; 617; 732; 933; 1100; 1357; 1652; 1940; 2260; 2718; 3515; 3772; 3818; 3908
AlwI	GGATCNNNN!	9	86; 722; 2022; 2333; 2579; 2971; 3330; 3428; 3514
AlwI	!NNNNNGATCC	5	73; 2398; 2942; 3329; 3426
Alw21I	GWGCW!C	6	38; 238; 539; 2267; 2457; 3762
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	4	1578; 1996; 3015; 3143
Alw44I	G!TGCAC	1	3758
AlwNI	CAGNNN!CTG	2	3255; 3663
Ama87I	C!YCGRG	4	31; 74; 202; 481
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	14
ApaI	GGGCC!C	2	75; 685
ApaBI	GCANNNNN!TGC	3	1722; 1794; 3256
ApaLI	G!TGCAC	1	3758
ApeKI	G!CWGC	16	405; 518; 572; 930; 1449; 2114; 2215; 2257; 2298; 2391; 2778; 3231; 3457; 3663; 3666; 3731
ApoI	R!AATTY	4	47; 968; 1072; 1083
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2669
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	2463; 3116; 3954
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2553
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	734; 1982
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	2	459; 2724
ArsI	GACNNNNNTTYGNNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	25	28; 79; 132; 447; 495; 510; 562; 715; 812; 1992; 1996; 2015; 2326; 2404; 2485; 2494; 2572; 2948; 2964; 3323; 3335; 3413; 3421; 3432; 3507
AsiGI	A!CCGGT	1	84
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2272
Asp700I	GAANN!NNTTC	1	334
Asp718I	G!GTACC	1	63
AspA2I	C!CTAGG	2	1976; 2991
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	24	15; 247; 599; 652; 1420; 1428; 1454; 1476; 1485; 1498; 1529; 2148; 2156; 2220; 2257; 2523; 2783; 2959; 3045; 3448; 3557; 3731; 3831; 3898
AspS9I	G!GNCC	11	71; 72; 210; 681; 682; 1261; 2670; 3115; 3161; 3219; 3252
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	45; 2836
AsuC2I	CC!SGG	7	75; 76; 769; 2158; 2318; 2931; 3695
AsuHPI	GGTGANNNNNNNNN!	4	474; 796; 3225; 3341
AsuHPI	!NNNNNNNTCACC	5	138; 492; 570; 1271; 2332
AsuNHI	G!CTAGC	0	
AvaI	C!YCGRG	4	31; 74; 202; 481
AvaII	G!GWCC	2	2670; 3115
AviII	TGC!GCA	1	2256
AvrII	C!CTAGG	2	1976; 2991
AxyI	CC!TNAGG	2	1634; 3266
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	7	75; 199; 472; 685; 2100; 2193; 3762
BalI	TGG!CCA	1	2236
BamHI	G!GATCC	1	78
BanI	G!GYRCC	9	63; 151; 196; 244; 307; 469; 1307; 2153; 2188
BanII	GRGCY!C	6	38; 75; 685; 1345; 2519; 3229
BanIII	AT!CGAT	1	1994
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	282
BauI	C!ACGAG	2	2872; 3899
BauI	C!TCGTG	1	2746
BbeI	GGCGC!C	2	248; 2157
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	279; 411
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1724; 1796; 2559
BbvI	GCAGCNNNNNNNN!	8	530; 584; 942; 2227; 2269; 2790; 3243; 3743
BbvI	!NNNNNNNNNNNGCTGC	7	392; 1436; 2101; 2285; 2378; 3444; 3650
Bbv12I	GWGCW!C	6	38; 238; 539; 2267; 2457; 3762
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	355; 661; 1284; 1848; 2374; 2876
BccI	!NNNNNGATGG	6	276; 459; 562; 1252; 2032; 2460
BceAI	ACGGCNNNNNNNNNN!	7	177; 306; 372; 411; 618; 2580; 3067
BceAI	!NNNNNNNNNNNGCCGT	3	1295; 2113; 3572
Bcefl	ACGGCNNNNNNNNNN!	7	177; 306; 372; 411; 618; 2580; 3067
Bcefl	!NNNNNNNNNNNGCCGT	3	1296; 2114; 3573
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	1583; 2373; 3874
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	7	75; 76; 769; 2158; 2318; 2931; 3695
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4007
BdaI	!NNNNNNNNNNTGANNNNNNTCA	1	3973
BfaI	C!TAG	8	10; 809; 1003; 1421; 1977; 2992; 3326; 3579
BfiI	ACTGGGNNNNN!	1	2103
BfiI	!NNNCCCAGT	1	1855
BfmI	C!TRYAG	6	52; 612; 670; 1489; 3616; 3807
BfoI	RGCGC!Y	7	16; 248; 653; 1421; 1429; 2157; 3832
BfrI	C!TTAAG	1	1036
BfuI	GTATCCNNNNN!	3	1583; 2373; 3874
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	275; 548; 2422; 2872
BfuAI	!NNNNNNNNGACAGGT	1	2041
BfuCI	!GATC	25	27; 78; 131; 446; 494; 509; 561; 714; 811; 1991; 1995; 2014; 2325; 2403; 2484; 2493; 2571; 2947; 2963; 3322; 3334; 3412; 3420; 3431; 3506
BglI	GCCNNNN!NGGC	1	1929
BglII	A!GATCT	1	27
BisI	GC!NGC	43	114; 141; 186; 213; 321; 360; 399; 406; 441; 519; 573; 606; 702; 798; 801; 931; 1450; 1472; 1486; 1924; 2063; 2115; 2126; 2216; 2221; 2258; 2299; 2386; 2389; 2392; 2628; 2724; 2765; 2779; 2893; 3232; 3247; 3458; 3664; 3667; 3732; 3875; 4030
BlnI	C!CTAGG	2	1976; 2991

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BlpI	GC!TNAGC	1	271
BlsI	GCN!GC	43	115; 142; 187; 214; 322; 361; 400; 407; 442; 520; 574; 607; 703; 799; 802; 932; 1451; 1473; 1487; 1925; 2064; 2116; 2127; 2217; 2222; 2259; 2300; 2387; 2390; 2393; 2629; 2725; 2766; 2780; 2894; 3233; 3248; 3459; 3665; 3668; 3733; 3876; 4031
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	2670; 3115
Bme1390I	CC!NGG	16	75; 76; 769; 1690; 1745; 1762; 2158; 2318; 2541; 2931; 3120; 3223; 3695; 3913; 3926; 4047
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	31; 74; 202; 481
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	72; 73; 211; 682; 683; 1262; 2671; 3116; 3162; 3220; 3253
BmiI	GGN!NCC	22	65; 73; 80; 153; 198; 246; 309; 471; 683; 1309; 1330; 1342; 1533; 1694; 1766; 2155; 2190; 3038; 3117; 3162; 4005; 4044
BmrI	ACTGGGNNNNN!	1	2103
BmrI	!NNNNCCCAGT	1	1855
BmrFI	CC!NGG	16	75; 76; 769; 1690; 1745; 1762; 2158; 2318; 2541; 2931; 3120; 3223; 3695; 3913; 3926; 4047
BmsI	GCATCNNNNN!	10	152; 386; 674; 746; 970; 1733; 1805; 2453; 2517; 2792
BmsI	!NNNNNNNNNGATGC	5	762; 2112; 2367; 2583; 3975
BmtI	GCTAG!C	0	
BmuI	ACTGGGNNNNN!	1	2103
BmuI	!NNNNCCCAGT	1	1855
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNCTCNNNNNNNNNNNN!	2	1943; 2842
BpI	!NNNNNNNNGAGNNNNNCTC	2	1911; 2810
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	2994
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	2937
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	45; 2836
Bpu1102I	GC!TNAGC	1	271
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3448; 3987
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	22; 2530; 3689
BpuMI	CC!SGG	7	75; 76; 769; 2158; 2318; 2931; 3695
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3143
Bsa29I	AT!CGAT	1	1994
BsaAI	YAC!GTR	4	279; 411; 1270; 2458
BsaBI	GATNN!NNATC	3	560; 816; 2013
BsaHI	GR!CGYC	4	245; 2154; 2856; 2935
BsaJI	C!CNNGG	23	67; 74; 95; 125; 482; 530; 548; 620; 767; 1688; 1760; 1883; 1918; 1927; 1976; 2317; 2586; 2991; 3118; 3119; 3221; 3222; 3912
BsaMI	GAATGCN!	1	905
BsaMI	G!CATTC	1	998
BsaWI	W!CCGGW	6	18; 84; 2185; 3029; 3719; 3866
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	631; 1234
BsaXI	!NNNNNNGGAGNNNNNNGT	1	121
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	1	151
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	601; 1204
BsbI	CAACACNNNNNNNNNNNNNNNN!	2	395; 749
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1155; 3062
Bsc4I	CCNNNNN!NNGG	19	207; 282; 432; 705; 1166; 1492; 1884; 2135; 2679; 2960; 2992; 3124; 3159; 3209; 3241; 3594; 3873; 4039; 4057
BscAI	GCATCNNNN!	10	151; 385; 673; 745; 969; 1732; 1804; 2452; 2516; 2791
BscAI	!NNNNNGATGC	5	765; 2115; 2370; 2586; 3978
Bse1I	ACTGGN!	3	2098; 2299; 3545
Bse1I	C!CAGT	4	1183; 1861; 3657; 3670

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Bse8I	GATNN!NNATC	3	560; 816; 2013
Bse21I	CC!TNAGG	2	1634; 3266
Bse118I	R!CCGGY	9	84; 148; 436; 472; 781; 1371; 2473; 2654; 2937
BseAI	T!CCGGA	0	
BseBI	CC!WGG	9	1690; 1745; 1762; 2541; 3120; 3223; 3913; 3926; 4047
BseCI	AT!CGAT	1	1994
BseDI	C!CNNGG	23	67; 74; 95; 125; 482; 530; 548; 620; 767; 1688; 1760; 1883; 1918; 1927; 1976; 2317; 2586; 2991; 3118; 3119; 3221; 3222; 3912
Bse3DI	GCAATGNN!	1	2387
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	6	573; 777; 2014; 2471; 2496; 2950
BseGI	!CATCC	4	512; 653; 665; 1840
BseJI	GATNN!NNATC	3	560; 816; 2013
BseLI	CCNNNNN!NNGG	19	207; 282; 432; 705; 1166; 1492; 1884; 2135; 2679; 2960; 2992; 3124; 3159; 3209; 3241; 3594; 3873; 4039; 4057
BseMI	GCAATGNN!	1	2387
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	38; 3280
BseMII	!NNNNNNNNCTGAG	6	262; 1625; 1927; 2808; 3380; 3789
BseNI	ACTGGN!	3	2098; 2299; 3545
BseNI	C!CAGT	4	1183; 1861; 3657; 3670
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	724; 1972
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	7	75; 199; 472; 685; 2100; 2193; 3762
BseXI	GCAGC!NNNNNNNN!	8	530; 584; 942; 2227; 2269; 2790; 3243; 3743
BseXI	!NNNNNNNNNNNGCTGC	7	392; 1436; 2101; 2285; 2378; 3444; 3650
BseX3I	C!GGCCG	3	438; 798; 2060
BseYI	C!CCAGC	5	316; 661; 1697; 1769; 3768
BseYI	G!CTGGG	2	732; 2658
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	3	325; 391; 526
Bsh1236I	CG!CG	18	69; 443; 599; 704; 803; 1078; 1454; 1474; 1498; 1529; 2220; 2521; 2959; 3043; 3106; 3175; 3448; 4029
Bsh1285I	CGRY!CG	5	89; 441; 801; 2063; 3738
BshFI	GG!CC	24	73; 116; 212; 436; 440; 683; 800; 1120; 1262; 1917; 1923; 1932; 1975; 2062; 2236; 2627; 2654; 3163; 3220; 3253; 3598; 4032; 4050; 4061
BshNI	G!GYRCC	9	63; 151; 196; 244; 307; 469; 1307; 2153; 2188
BshTI	A!CCGGT	1	84
BshVI	AT!CGAT	1	1994
BsiEI	CGRY!CG	5	89; 441; 801; 2063; 3738
BsiHKAI	GWGCW!C	6	38; 238; 539; 2267; 2457; 3762
BsiHKCI	C!YCGRG	4	31; 74; 202; 481
BsiSI	C!CGG	24	19; 75; 85; 149; 437; 473; 769; 782; 1372; 2059; 2136; 2158; 2186; 2317; 2407; 2474; 2655; 2930; 2938; 3030; 3504; 3694; 3720; 3867
BsiWI	C!GTACC	0	
BsII	CCNNNNN!NNGG	19	207; 282; 432; 705; 1166; 1492; 1884; 2135; 2679; 2960; 2992; 3124; 3159; 3209; 3241; 3594; 3873; 4039; 4057
BsIFI	GGGACNNNNNNNNNN!	3	2305; 2837; 2946
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1670; 1742; 1806; 3101
BsmI	GAATGCN!	1	905
BsmI	G!CATTC	1	998
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	4	1578; 1996; 3015; 3143
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2305; 2837; 2946
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1670; 1742; 1806; 3101
BsnI	GG!CC	24	73; 116; 212; 436; 440; 683; 800; 1120; 1262; 1917; 1923; 1932; 1975; 2062; 2236; 2627; 2654; 3163; 3220; 3253; 3598; 4032; 4050; 4061
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3143

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BsoBI	C!YCGRG	4	31; 74; 202; 481
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	5	95; 125; 548; 1883; 2586
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	2957
Bsp24I	!NNNNNNCCANNNNNGTC	2	3378; 3556
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3410; 3588
Bsp24I	!NNNNNNNGACNNNNNTGG	1	2925
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	45; 2836
Bsp120I	G!GGCCC	2	71; 681
Bsp143I	!GATC	25	27; 78; 131; 446; 494; 509; 561; 714; 811; 1991; 1995; 2014; 2325; 2403; 2484; 2493; 2571; 2947; 2963; 3322; 3334; 3412; 3420; 3431; 3506
Bsp1286I	GDGCH!C	15	38; 75; 199; 238; 472; 539; 685; 1345; 2100; 2193; 2267; 2457; 2519; 3229; 3762
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	1	271
BspACI	C!CGC	36	67; 122; 141; 213; 375; 426; 441; 516; 582; 699; 702; 801; 1469; 1472; 1486; 1576; 1824; 1836; 1845; 1857; 1867; 1878; 1924; 2063; 2126; 2628; 2673; 2739; 2765; 2890; 2893; 3041; 3173; 3480; 3624; 4120
BspACI	G!CGG	29	69; 113; 185; 188; 320; 359; 398; 605; 797; 1414; 1441; 1529; 1639; 2220; 2284; 2385; 2388; 2668; 2723; 2821; 2959; 3106; 3246; 3489; 3734; 3855; 3874; 4001; 4029
BspCNI	CTCAGNNNNNNNN!	2	37; 3279
BspCNI	!NNNNNNCTGAG	6	263; 1626; 1928; 2809; 3381; 3790
BspDI	AT!CGAT	1	1994
BspD6I	GACTCNNNN!	5	30; 813; 1227; 2833; 3710
BspD6I	!NNNNNGAGTC	2	1190; 1622
BspEI	T!CCGGA	0	
BspFNI	CG!CG	18	69; 443; 599; 704; 803; 1078; 1454; 1474; 1498; 1529; 2220; 2521; 2959; 3043; 3106; 3175; 3448; 4029
BspHI	T!CATGA	2	1580; 3352
BspLI	GGN!NCC	22	65; 73; 80; 153; 198; 246; 309; 471; 683; 1309; 1330; 1342; 1533; 1694; 1766; 2155; 2190; 3038; 3117; 3162; 4005; 4044
BspMI	ACCTGCNNNN!	4	275; 548; 2422; 2872
BspMI	!NNNNNNNGCAGGT	1	2041
BspOI	GCTAG!C	0	
BspPI	GGATCNNNN!	9	86; 722; 2022; 2333; 2579; 2971; 3330; 3428; 3514
BspPI	!NNNNNGATCC	5	73; 2398; 2942; 3329; 3426
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	226; 2498; 2708
BspTI	C!TTAAG	1	1036
BspT104I	TT!CGAA	2	45; 2836
BspT107I	G!GYRCC	9	63; 151; 196; 244; 307; 469; 1307; 2153; 2188
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3143
BsrI	ACTGGN!	3	2098; 2299; 3545
BsrI	C!CAGT	4	1183; 1861; 3657; 3670
BsrBI	CCG!CTC	2	1578; 2767
BsrBI	GAG!CGG	3	113; 1414; 2821
BsrDI	GCAATGNN!	1	2387
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	9	84; 148; 436; 472; 781; 1371; 2473; 2654; 2937
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	3	2098; 2299; 3545
BsrSI	C!CAGT	4	1183; 1861; 3657; 3670
BssAI	R!CCGGY	9	84; 148; 436; 472; 781; 1371; 2473; 2654; 2937
BssECI	C!CNNGG	23	67; 74; 95; 125; 482; 530; 548; 620; 767; 1688; 1760; 1883; 1918; 1927; 1976; 2317; 2586; 2991; 3118; 3119; 3221; 3222; 3912
BssHII	G!CGCGC	0	
BssKI	!CCNGG	16	73; 74; 767; 1688; 1743; 1760; 2156; 2316; 2539; 2929; 3118; 3221; 3693; 3911; 3924; 4045
BssMI	!GATC	25	27; 78; 131; 446; 494; 509; 561; 714; 811; 1991; 1995; 2014; 2325; 2403; 2484; 2493; 2571; 2947; 2963; 3322; 3334; 3412; 3420; 3431; 3506

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssNI	GR!CGYC	4	245; 2154; 2856; 2935
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	2872; 3899
BssSI	C!TCGTG	1	2746
BssTII	C!CWWGG	7	95; 125; 548; 1883; 1976; 2586; 2991
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	226; 1621; 2498; 2708
Bst98I	C!TTAAG	1	1036
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	4	245; 2154; 2856; 2935
BstAFI	C!TTAAG	1	1036
BstAPI	GCANNNN!NTGC	3	1721; 1793; 3255
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	2	45; 2836
Bst2BI	C!ACGAG	2	2872; 3899
Bst2BI	C!TCGTG	1	2746
BstBAI	YAC!GTR	4	279; 411; 1270; 2458
Bst4CI	ACN!GT	10	63; 531; 1245; 2534; 2650; 2758; 3081; 3572; 4042; 4113
BstC8I	GCN!NGC	32	71; 118; 122; 344; 403; 438; 595; 755; 1373; 1416; 1430; 1703; 1722; 1775; 1794; 2048; 2234; 2453; 2519; 2525; 2557; 2598; 2602; 2656; 2939; 3126; 3173; 3229; 3251; 3462; 4022; 4059
BstDEI	C!TNAG	8	24; 271; 1634; 1936; 2817; 3266; 3389; 3798
BstDSI	C!CRYGG	8	67; 95; 125; 530; 548; 620; 1883; 2586
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	573; 777; 2014; 2471; 2496; 2950
BstF5I	!CATCC	4	512; 653; 665; 1840
BstFNI	CG!CG	18	69; 443; 599; 704; 803; 1078; 1454; 1474; 1498; 1529; 2220; 2521; 2959; 3043; 3106; 3175; 3448; 4029
BstH2I	RGCGC!Y	7	16; 248; 653; 1421; 1429; 2157; 3832
BstHHI	GCG!C	24	15; 247; 599; 652; 1420; 1428; 1454; 1476; 1485; 1498; 1529; 2148; 2156; 2220; 2257; 2523; 2783; 2959; 3045; 3448; 3557; 3731; 3831; 3898
BstKTI	GAT!C	25	30; 81; 134; 449; 497; 512; 564; 717; 814; 1994; 1998; 2017; 2328; 2406; 2487; 2496; 2574; 2950; 2966; 3325; 3337; 3415; 3423; 3434; 3509
BstMAI	GTCTCN!	0	
BstMAI	!NNNNGAGAC	4	1578; 1996; 3015; 3143
BstMBI	!GATC	25	27; 78; 131; 446; 494; 509; 561; 714; 811; 1991; 1995; 2014; 2325; 2403; 2484; 2493; 2571; 2947; 2963; 3322; 3334; 3412; 3420; 3431; 3506
BstMCI	CGRY!CG	5	89; 441; 801; 2063; 3738
BstMWI	GCNNNNN!NNGC	26	110; 149; 194; 242; 449; 581; 605; 1381; 1411; 1438; 1480; 1721; 1793; 1844; 1923; 2145; 2229; 2252; 2391; 2514; 2597; 2864; 3051; 3255; 3454; 4026
BstNI	CC!WGG	9	1690; 1745; 1762; 2541; 3120; 3223; 3913; 3926; 4047
BstNSI	RCATG!Y	5	639; 1724; 1796; 2559; 4076
BstOI	CC!WGG	9	1690; 1745; 1762; 2541; 3120; 3223; 3913; 3926; 4047
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	16	73; 74; 767; 1688; 1743; 1760; 2156; 2316; 2539; 2929; 3118; 3221; 3693; 3911; 3924; 4045
BstSFI	C!TRYAG	6	52; 612; 670; 1489; 3616; 3807
BstSLI	GKGCM!C	7	75; 199; 472; 685; 2100; 2193; 3762
BstSNI	TAC!GTA	0	
BstUI	CG!CG	18	69; 443; 599; 704; 803; 1078; 1454; 1474; 1498; 1529; 2220; 2521; 2959; 3043; 3106; 3175; 3448; 4029
Bst2UI	CC!WGG	9	1690; 1745; 1762; 2541; 3120; 3223; 3913; 3926; 4047
BstV1I	GCAGNNNNNNNN!	8	530; 584; 942; 2227; 2269; 2790; 3243; 3743
BstV1I	!NNNNNNNNNNNGCTGC	7	392; 1436; 2101; 2285; 2378; 3444; 3650
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	9	27; 78; 2325; 2571; 2963; 3322; 3334; 3420; 3431
BstYI	R!GATCY	9	27; 78; 2325; 2571; 2963; 3322; 3334; 3420; 3431

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstZI	C!GGCCG	3	438; 798; 2060
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1583; 2373; 3874
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	1994
Bsu36I	CC!TNAGG	2	1634; 3266
BsuRI	GG!CC	24	73; 116; 212; 436; 440; 683; 800; 1120; 1262; 1917; 1923; 1932; 1975; 2062; 2236; 2627; 2654; 3163; 3220; 3253; 3598; 4032; 4050; 4061
BsuTUI	AT!CGAT	1	1994
BtgI	C!CRYGG	8	67; 95; 125; 530; 548; 620; 1883; 2586
BtgZI	GCGATGNNNNNNNNNN!	2	1271; 2606
BtgZI	!NNNNNNNNNNNNNNNNCATCGC	2	2425; 2769
BthCI	GCNG!C	43	116; 143; 188; 215; 323; 362; 401; 408; 443; 521; 575; 608; 704; 800; 803; 933; 1452; 1474; 1488; 1926; 2065; 2117; 2128; 2218; 2223; 2260; 2301; 2388; 2391; 2394; 2630; 2726; 2767; 2781; 2895; 3234; 3249; 3460; 3666; 3669; 3734; 3877; 4032
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	993
BtsCI	GGATGNN!	6	573; 777; 2014; 2471; 2496; 2950
BtsCI	!CATCC	4	512; 653; 665; 1840
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	275; 548; 2422; 2872
BveI	!NNNNNNNNGCAGGT	1	2041
Cac8I	GCN!NGC	32	71; 118; 122; 344; 403; 438; 595; 755; 1373; 1416; 1430; 1703; 1722; 1775; 1794; 2048; 2234; 2453; 2519; 2525; 2557; 2598; 2602; 2656; 2939; 3126; 3173; 3229; 3251; 3462; 4022; 4059
CaiI	CAGNNN!CTG	2	3255; 3663
CciI	T!CATGA	2	1580; 3352
CciNI	GC!GGCCGC	1	798
CdiI	CATC!G	6	381; 741; 2443; 2448; 2646; 2787
CdiI	C!GATG	2	1257; 2592
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	2	213; 4026
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	2	1815; 1857
CelII	GC!TNAGC	1	271
CfoI	GCG!C	24	15; 247; 599; 652; 1420; 1428; 1454; 1476; 1485; 1498; 1529; 2148; 2156; 2220; 2257; 2523; 2783; 2959; 3045; 3448; 3557; 3731; 3831; 3898
CfrI	Y!GGCCR	6	438; 798; 2060; 2234; 2625; 2652
Cfr9I	C!CCGGG	1	74
Cfr10I	R!CCGGY	9	84; 148; 436; 472; 781; 1371; 2473; 2654; 2937
Cfr13I	G!GNCC	11	71; 72; 210; 681; 682; 1261; 2670; 3115; 3161; 3219; 3252
Cfr42I	CCGC!GG	1	70
ChaI	GATC!	25	31; 82; 135; 450; 498; 513; 565; 718; 815; 1995; 1999; 2018; 2329; 2407; 2488; 2497; 2575; 2951; 2967; 3326; 3338; 3416; 3424; 3435; 3510
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	4	1971; 3411; 3511; 3589
CjeI	!NNNNNNNNNACNNNNNNNTGG	5	1638; 1733; 2925; 3475; 4030
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	5	1672; 1767; 2959; 3509; 4064
CjeI	!NNNNNNNNCCANNNNNNNGT	4	1937; 3377; 3477; 3555
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	2	3411; 3589
CjePI	!NNNNNNNNGANNNNNNNTGG	2	2925; 3524
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	2	2958; 3557
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	3378; 3556
Clal	AT!CGAT	1	1994
CpoI	CG!GWCCG	1	2670
CseI	GACGCNNNNN!	2	2864; 2943
CseI	!NNNNNNNNNNGCGTC	3	1487; 3382; 3960
CsiI	A!CCWGGT	1	1743
CspI	CG!GWCCG	1	2670
Csp6I	G!TAC	4	64; 387; 747; 2459
Csp45I	TT!CGAA	2	45; 2836
CspAI	A!CCGGT	1	84

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	1434; 3043
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	19	96; 126; 216; 549; 636; 687; 1581; 1721; 1793; 1884; 2025; 2370; 2556; 2587; 2613; 2969; 3353; 4073; 4124
CviJI	RG!CY	91	36; 42; 73; 116; 177; 212; 260; 275; 287; 293; 323; 362; 416; 422; 436; 440; 476; 575; 593; 608; 617; 632; 683; 732; 800; 823; 933; 1100; 1120; 1262; 1343; 1357; 1371; 1652; 1693; 1765; 1888; 1917; 1923; 1932; 1940; 1963; 1975; 1981; 2062; 2079; 2087; 2114; 2139; 2223; 2232; 2236; 2260; 2298; 2374; 2391; 2410; 2473; 2517; 2527; 2544; 2627; 2654; 2658; 2695; 2718; 2734; 2914; 2941; 3002; 3124; 3163; 3220; 3227; 3234; 3253; 3264; 3515; 3544; 3587; 3598; 3663; 3742; 3767; 3772; 3818; 3908; 4006; 4032; 4050; 4061
CviKI-1	RG!CY	91	36; 42; 73; 116; 177; 212; 260; 275; 287; 293; 323; 362; 416; 422; 436; 440; 476; 575; 593; 608; 617; 632; 683; 732; 800; 823; 933; 1100; 1120; 1262; 1343; 1357; 1371; 1652; 1693; 1765; 1888; 1917; 1923; 1932; 1940; 1963; 1975; 1981; 2062; 2079; 2087; 2114; 2139; 2223; 2232; 2236; 2260; 2298; 2374; 2391; 2410; 2473; 2517; 2527; 2544; 2627; 2654; 2658; 2695; 2718; 2734; 2914; 2941; 3002; 3124; 3163; 3220; 3227; 3234; 3253; 3264; 3515; 3544; 3587; 3598; 3663; 3742; 3767; 3772; 3818; 3908; 4006; 4032; 4050; 4061
CviQI	G!TAC	4	64; 387; 747; 2459
DdeI	C!TNAG	8	24; 271; 1634; 1936; 2817; 3266; 3389; 3798
DinI	GGC!GCC	2	246; 2155
DpnI	GA!TC	25	29; 80; 133; 448; 496; 511; 563; 716; 813; 1993; 1997; 2016; 2327; 2405; 2486; 2495; 2573; 2949; 2965; 3324; 3336; 3414; 3422; 3433; 3508
DpnII	!GATC	25	27; 78; 131; 446; 494; 509; 561; 714; 811; 1991; 1995; 2014; 2325; 2403; 2484; 2493; 2571; 2947; 2963; 3322; 3334; 3412; 3420; 3431; 3506
DraI	TTT!AAA	3	856; 3298; 3317
DraII	RG!GNCCY	2	681; 3252
DraIII	CACNN!GTG	1	1270
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	1	3634
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1225; 2181; 3970
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1225; 2181; 3970
EaeI	Y!GGCCR	6	438; 798; 2060; 2234; 2625; 2652
EagI	C!GGCCG	3	438; 798; 2060
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	226; 1621; 2498; 2708
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	4	226; 1621; 2498; 2708
EciI	GGCGANNNNNNNNNNNN!	5	203; 1654; 2683; 3870; 4016
EciI	!NNNNNNNNNTCCGCC	4	688; 1825; 1846; 1867
Ecl136II	GAG!CTC	1	36
EclXI	C!GGCCG	3	438; 798; 2060
Eco24I	GRGCY!C	6	38; 75; 685; 1345; 2519; 3229
Eco31I	GGTTCN!	0	
Eco31I	!NNNNGAGACC	1	3143
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	2670; 3115
Eco47III	AGC!GCT	1	14
Eco52I	C!GGCCG	3	438; 798; 2060
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	2	2300; 2732
Eco57I	!NNNNNNNNNNNNNNNCTCAG	4	240; 402; 573; 3530
Eco72I	CAC!GTG	2	279; 411
Eco81I	CC!TNAGG	2	1634; 3266

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco88I	C!YCGRG	4	31; 74; 202; 481
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWVGG	7	95; 125; 548; 1883; 1976; 2586; 2991
Eco147I	AGG!CCT	1	1975
EcoHI	!CCSGG	7	73; 74; 767; 2156; 2316; 2929; 3693
EcoICRI	GAG!CTC	1	36
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	3	2300; 2732; 2994
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	240; 402; 573; 2937; 3530
EcoNI	CCTNN!NNNAGG	0	
EcoO65I	G!GTNACC	0	
EcoO109I	RG!GNCCY	2	681; 3252
EcoRI	G!AATTC	1	47
EcoRII	!CCWGG	9	1688; 1743; 1760; 2539; 3118; 3221; 3911; 3924; 4045
EcoRV	GAT!ATC	0	
EcoT14I	C!CWVGG	7	95; 125; 548; 1883; 1976; 2586; 2991
EcoT22I	ATGCA!T	3	1726; 1798; 4129
EcoT38I	GRGCY!C	6	38; 75; 685; 1345; 2519; 3229
Eco53kI	GAG!CTC	1	36
EgeI	GGC!GCC	2	246; 2155
EheI	GGC!GCC	2	246; 2155
ErhI	C!CWVGG	7	95; 125; 548; 1883; 1976; 2586; 2991
EsaBC3I	TC!GA	17	33; 46; 59; 135; 174; 381; 1304; 1995; 2268; 2424; 2448; 2484; 2646; 2837; 2882; 3137; 3975
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	19	99; 129; 219; 552; 639; 690; 1584; 1724; 1796; 1887; 2028; 2373; 2559; 2590; 2616; 2972; 3356; 4076; 4127
Fail	YA!TR	43	97; 127; 217; 550; 637; 688; 816; 826; 892; 937; 1142; 1570; 1582; 1713; 1722; 1785; 1794; 1818; 1885; 1909; 2026; 2090; 2371; 2396; 2557; 2588; 2614; 2686; 2902; 2970; 3048; 3100; 3261; 3278; 3280; 3282; 3354; 3632; 3821; 3937; 4010; 4074; 4125
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	1	2494
FalI	!NNNNNNNNNAAGNNNNNCTT	1	2462
FaqI	GGGACNNNNNNNNNN!	3	2305; 2837; 2946
FaqI	!NNNNNNNNNNNNNGTCCC	4	1670; 1742; 1806; 3101
FatI	!CATG	19	95; 125; 215; 548; 635; 686; 1580; 1720; 1792; 1883; 2024; 2369; 2555; 2586; 2612; 2968; 3352; 4072; 4123
FauI	CCCGCNNNN!	8	129; 382; 589; 1476; 1831; 1852; 3048; 3180
FauI	!NNNNNNGCGGG	6	62; 1407; 2277; 2814; 2952; 3099
FauNDI	CA!TATG	0	
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	58
FmuI	GGNC!C	11	74; 75; 213; 684; 685; 1264; 2673; 3118; 3164; 3222; 3255
Fnu4HI	GC!NGC	43	114; 141; 186; 213; 321; 360; 399; 406; 441; 519; 573; 606; 702; 798; 801; 931; 1450; 1472; 1486; 1924; 2063; 2115; 2126; 2216; 2221; 2258; 2299; 2386; 2389; 2392; 2628; 2724; 2765; 2779; 2893; 3232; 3247; 3458; 3664; 3667; 3732; 3875; 4030
FokI	GGATGNNNNNNNN!	6	580; 784; 2021; 2478; 2503; 2957
FokI	!NNNNNNNNNNNNNCATCC	3	499; 640; 1827
FriOI	GRGCY!C	6	38; 75; 685; 1345; 2519; 3229
FseI	GGCCGG!CC	1	440
FspI	TGC!GCA	1	2256
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	10; 809; 1003; 1421; 1977; 2992; 3326; 3579

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	139	32; 80; 95; 130; 154; 168; 213; 234; 252; 267; 289; 313; 328; 346; 360; 381; 439; 454; 486; 516; 540; 559; 594; 633; 666; 682; 697; 712; 741; 763; 780; 795; 814; 837; 876; 890; 1031; 1126; 1150; 1173; 1196; 1214; 1236; 1257; 1276; 1295; 1324; 1345; 1359; 1385; 1473; 1499; 1548; 1589; 1607; 1646; 1662; 1700; 1757; 1772; 1829; 1849; 1863; 1880; 1894; 1931; 1946; 1989; 2072; 2139; 2170; 2190; 2205; 2250; 2264; 2330; 2344; 2363; 2379; 2420; 2440; 2487; 2537; 2553; 2573; 2598; 2618; 2641; 2668; 2686; 2712; 2752; 2778; 2802; 2858; 2872; 2900; 2943; 2964; 2999; 3043; 3131; 3155; 3177; 3197; 3213; 3234; 3248; 3267; 3351; 3371; 3399; 3414; 3448; 3490; 3517; 3532; 3577; 3601; 3615; 3637; 3663; 3683; 3707; 3733; 3781; 3800; 3819; 3845; 3880; 3925; 3955; 3969; 4020; 4034; 4059; 4075; 4096; 4125
FspEI	!NNNNNNNNNNNNNNNGG	112	4; 46; 70; 98; 134; 163; 193; 227; 268; 290; 341; 376; 418; 445; 469; 517; 535; 554; 587; 607; 662; 691; 718; 754; 782; 825; 925; 994; 1024; 1102; 1151; 1173; 1201; 1237; 1282; 1311; 1347; 1366; 1394; 1414; 1477; 1500; 1608; 1640; 1658; 1687; 1730; 1759; 1870; 1899; 1942; 1963; 1991; 2024; 2044; 2069; 2096; 2121; 2143; 2171; 2197; 2218; 2269; 2290; 2308; 2356; 2392; 2448; 2473; 2497; 2526; 2549; 2573; 2599; 2621; 2640; 2665; 2705; 2741; 2806; 2891; 2915; 2944; 2978; 2999; 3019; 3064; 3091; 3110; 3143; 3195; 3226; 3253; 3305; 3403; 3474; 3519; 3580; 3645; 3679; 3705; 3723; 3759; 3829; 3852; 3874; 3898; 3931; 3979; 4014; 4032; 4089
Fsp4HI	GC!NGC	43	114; 141; 186; 213; 321; 360; 399; 406; 441; 519; 573; 606; 702; 798; 801; 931; 1450; 1472; 1486; 1924; 2063; 2115; 2126; 2216; 2221; 2258; 2299; 2386; 2389; 2392; 2628; 2724; 2765; 2779; 2893; 3232; 3247; 3458; 3664; 3667; 3732; 3875; 4030
GdiII	C!GGCCR	3	438; 798; 2060
GdiII	Y!GGCCG	5	438; 798; 2060; 2625; 2652
GlaI	GC!GC	24	14; 246; 598; 651; 1419; 1427; 1453; 1475; 1484; 1497; 1528; 2147; 2155; 2219; 2256; 2522; 2782; 2958; 3044; 3447; 3556; 3730; 3830; 3897
Glul	GC!NGC	43	114; 141; 186; 213; 321; 360; 399; 406; 441; 519; 573; 606; 702; 798; 801; 931; 1450; 1472; 1486; 1924; 2063; 2115; 2126; 2216; 2221; 2258; 2299; 2386; 2389; 2392; 2628; 2724; 2765; 2779; 2893; 3232; 3247; 3458; 3664; 3667; 3732; 3875; 4030
GsaI	CCCAG!C	5	320; 665; 1701; 1773; 3772
GsaI	GCTGG!G	2	736; 2662
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	2994
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	2937
HaeI	WGG!CCW	5	1975; 2236; 3598; 4050; 4061
HaeII	RGCGC!Y	7	16; 248; 653; 1421; 1429; 2157; 3832
HaeIII	GG!CC	24	73; 116; 212; 436; 440; 683; 800; 1120; 1262; 1917; 1923; 1932; 1975; 2062; 2236; 2627; 2654; 3163; 3220; 3253; 3598; 4032; 4050; 4061
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	829; 2350
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	795; 2316
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	828; 2349
HaeIV	!NNNNNNNGAYNNNNNRTC	2	797; 2318
HapII	C!CGG	24	19; 75; 85; 149; 437; 473; 769; 782; 1372; 2059; 2136; 2158; 2186; 2317; 2407; 2474; 2655; 2930; 2938; 3030; 3504; 3694; 3720; 3867
HgaI	GACGCNNNNN!	2	2864; 2943
HgaI	!NNNNNNNNNNNGCGTC	3	1487; 3382; 3960
HhaI	GCG!C	24	15; 247; 599; 652; 1420; 1428; 1454; 1476; 1485; 1498; 1529; 2148; 2156; 2220; 2257; 2523; 2783; 2959; 3045; 3448; 3557; 3731; 3831; 3898
HinI	GR!CGYC	4	245; 2154; 2856; 2935
Hin1II	CATG!	19	99; 129; 219; 552; 639; 690; 1584; 1724; 1796; 1887; 2028; 2373; 2559; 2590; 2616; 2972; 3356; 4076; 4127
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	2	828; 2349
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	796; 2317; 2347
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	3	828; 2349; 2379
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	796; 2317
Hin6I	G!CGC	24	13; 245; 597; 650; 1418; 1426; 1452; 1474; 1483; 1496; 1527; 2146; 2154; 2218; 2255; 2521; 2781; 2957; 3043; 3446; 3555; 3729; 3829; 3896

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HinP1I	G!CGC	24	13; 245; 597; 650; 1418; 1426; 1452; 1474; 1483; 1496; 1527; 2146; 2154; 2218; 2255; 2521; 2781; 2957; 3043; 3446; 3555; 3729; 3829; 3896
HincII	GTY!RAC	2	59; 917
HindII	GTY!RAC	2	59; 917
HindIII	A!AGCTT	1	40
HinfI	G!ANTC	12	22; 805; 1197; 1219; 1629; 2639; 2773; 2825; 2883; 2920; 3702; 4098
HpaI	GTT!AAC	1	917
HpaII	C!CGG	24	19; 75; 85; 149; 437; 473; 769; 782; 1372; 2059; 2136; 2158; 2186; 2317; 2407; 2474; 2655; 2930; 2938; 3030; 3504; 3694; 3720; 3867
HphI	GGTGANNNNNNNN!	4	474; 796; 3225; 3341
HphI	!NNNNNNNTCACC	5	138; 492; 570; 1271; 2332
Hpy8I	GTN!NAC	7	59; 627; 917; 1201; 1218; 1273; 3760
Hpy99I	CGWCG!	10	63; 109; 604; 2244; 2272; 2566; 2581; 2858; 3243; 3976
Hpy166II	GTN!NAC	7	59; 627; 917; 1201; 1218; 1273; 3760
Hpy188I	TCN!GA	11	27; 1328; 1937; 2121; 2465; 2818; 2919; 3398; 3532; 3885; 3963
Hpy188III	TC!NNGA	25	31; 381; 565; 645; 762; 809; 1581; 1633; 1946; 1999; 2172; 2488; 2497; 2580; 2636; 2680; 2770; 2803; 2872; 3353; 3427; 3510; 3608; 3706; 3840
HpyAV	CCTTCNNNNNN!	8	264; 345; 597; 705; 768; 2799; 2906; 3585
HpyAV	!NNNNNGAAGG	7	1387; 2282; 3011; 3027; 3210; 3527; 3837
HpyCH4III	ACN!GT	10	63; 531; 1245; 2534; 2650; 2758; 3081; 3572; 4042; 4113
HpyCH4IV	A!CGT	10	278; 410; 1214; 1226; 1269; 1379; 2270; 2457; 3238; 3371
HpyCH4V	TG!CA	23	54; 342; 408; 543; 639; 672; 775; 903; 930; 998; 1715; 1724; 1787; 1796; 1911; 1987; 2046; 2205; 2380; 2394; 3464; 3760; 4127
HpyF3I	C!TNAG	8	24; 271; 1634; 1936; 2817; 3266; 3389; 3798
HpyF10VI	GCNNNNN!NNGC	26	110; 149; 194; 242; 449; 581; 605; 1381; 1411; 1438; 1480; 1721; 1793; 1844; 1923; 2145; 2229; 2252; 2391; 2514; 2597; 2864; 3051; 3255; 3454; 4026
Hsp92I	GR!CGYC	4	245; 2154; 2856; 2935
Hsp92II	CATG!	19	99; 129; 219; 552; 639; 690; 1584; 1724; 1796; 1887; 2028; 2373; 2559; 2590; 2616; 2972; 3356; 4076; 4127
HspAI	G!CGC	24	13; 245; 597; 650; 1418; 1426; 1452; 1474; 1483; 1496; 1527; 2146; 2154; 2218; 2255; 2521; 2781; 2957; 3043; 3446; 3555; 3729; 3829; 3896
KasI	G!GCGCC	2	244; 2153
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	67
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	70
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	917
Kzo9I	!GATC	25	27; 78; 131; 446; 494; 509; 561; 714; 811; 1991; 1995; 2014; 2325; 2403; 2484; 2493; 2571; 2947; 2963; 3322; 3334; 3412; 3420; 3431; 3506
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	226; 2498; 2708
LpnI	RGCI!GCY	7	14; 246; 651; 1419; 1427; 2155; 3830
LpnPI	CCDGNNNNNNNNNN!	59	32; 88; 130; 162; 262; 280; 330; 352; 450; 486; 553; 607; 675; 763; 782; 891; 1196; 1385; 1608; 1646; 1662; 1702; 1757; 1774; 1874; 1959; 2072; 2149; 2171; 2194; 2330; 2344; 2363; 2420; 2487; 2537; 2553; 2610; 2668; 2877; 2943; 2967; 3043; 3132; 3235; 3268; 3499; 3517; 3663; 3683; 3707; 3733; 3782; 3880; 3925; 3955; 4034; 4059; 4096
LpnPI	!NNNNNNNNNNNNNNCHGG	51	4; 60; 134; 163; 193; 422; 458; 550; 718; 754; 1237; 1357; 1414; 1477; 1675; 1687; 1747; 1759; 1991; 2036; 2079; 2121; 2143; 2171; 2218; 2280; 2302; 2392; 2459; 2482; 2526; 2621; 2640; 2665; 2814; 2915; 2958; 3015; 3105; 3208; 3235; 3253; 3489; 3526; 3679; 3705; 3845; 3863; 3898; 3979; 4032
Lsp1109I	GCAGCNNNNNNNN!	8	530; 584; 942; 2227; 2269; 2790; 3243; 3743
Lsp1109I	!NNNNNNNNNNNNNGCTGC	7	392; 1436; 2101; 2285; 2378; 3444; 3650
LweI	GCATCNNNNN!	10	152; 386; 674; 746; 970; 1733; 1805; 2453; 2517; 2792
LweI	!NNNNNNNNNGATGC	5	762; 2112; 2367; 2583; 3975
MabI	A!CCWGGT	1	1743

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaeI	C!TAG	8	10; 809; 1003; 1421; 1977; 2992; 3326; 3579
MaeII	A!CGT	10	278; 410; 1214; 1226; 1269; 1379; 2270; 2457; 3238; 3371
MaeIII	!GTNAC	9	942; 1443; 1455; 2274; 2580; 3270; 3536; 3652; 3715
MaiI	GA!TC	25	29; 80; 133; 448; 496; 511; 563; 716; 813; 1993; 1997; 2016; 2327; 2405; 2486; 2495; 2573; 2949; 2965; 3324; 3336; 3414; 3422; 3433; 3508
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1578; 2767
MbiI	GAG!CGG	3	113; 1414; 2821
MboI	!GATC	25	27; 78; 131; 446; 494; 509; 561; 714; 811; 1991; 1995; 2014; 2325; 2403; 2484; 2493; 2571; 2947; 2963; 3322; 3334; 3412; 3420; 3431; 3506
MboII	GAAGANNNNNNNN!	7	243; 799; 1410; 1638; 2515; 2725; 3344
MboII	!NNNNNNNTCTTC	5	489; 2805; 2972; 3172; 3415
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	904
MflI	R!GATCY	9	27; 78; 2325; 2571; 2963; 3322; 3334; 3420; 3431
MhlI	GDGCH!C	15	38; 75; 199; 238; 472; 539; 685; 1345; 2100; 2193; 2267; 2457; 2519; 3229; 3762
MlsI	TGG!CCA	1	2236
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2236
MlyI	GAGTCNNNNN!	2	1206; 1638
MlyI	!NNNNNGACTC	5	16; 799; 1213; 2819; 3696
Mly113I	GG!CGCC	2	245; 2154
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1247
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	3679; 3863
MnII	CCTCNNNNNNN!	7	873; 1937; 2755; 2961; 3275; 3645; 3969
MnII	!NNNNNNGAGG	17	186; 384; 426; 477; 702; 833; 1298; 1629; 1907; 1950; 1965; 2005; 2069; 2205; 2562; 2992; 3895
Mph1103I	ATGCA!T	3	1726; 1798; 4129
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	436; 1371; 2654; 2937
MroXI	GAANN!NNTTC	1	334
MscI	TGG!CCA	1	2236
MseI	T!TAA	14	855; 916; 1037; 1058; 1069; 1081; 1092; 1109; 1207; 1478; 3297; 3311; 3316; 3368
MslI	CAYNN!NNRTG	1	2591
MspI	C!CGG	24	19; 75; 85; 149; 437; 473; 769; 782; 1372; 2059; 2136; 2158; 2186; 2317; 2407; 2474; 2655; 2930; 2938; 3030; 3504; 3694; 3720; 3867
Msp20I	TGG!CCA	1	2236
MspA1I	CMG!CKG	6	69; 320; 1652; 2260; 3489; 3734
MspCI	C!TTAAG	1	1036
MspJI	CNNRNNNNNNNNN!	212	22; 36; 49; 80; 97; 120; 133; 147; 161; 177; 190; 214; 228; 251; 275; 289; 323; 339; 355; 380; 393; 414; 444; 471; 485; 504; 519; 543; 559; 577; 593; 606; 633; 646; 673; 690; 715; 730; 745; 762; 780; 794; 814; 827; 842; 861; 878; 891; 932; 946; 959; 977; 1015; 1030; 1048; 1089; 1113; 1133; 1151; 1172; 1195; 1227; 1242; 1264; 1282; 1295; 1316; 1333; 1346; 1359; 1375; 1388; 1418; 1433; 1458; 1476; 1489; 1504; 1528; 1542; 1566; 1591; 1607; 1645; 1661; 1700; 1714; 1728; 1756; 1772; 1786; 1800; 1829; 1842; 1863; 1872; 1894; 1924; 1940; 1958; 1988; 2011; 2035; 2059; 2078; 2106; 2132; 2148; 2161; 2184; 2198; 2218; 2231; 2245; 2264; 2278; 2291; 2307; 2322; 2335; 2351; 2366; 2382; 2407; 2426; 2442; 2455; 2468; 2486; 2500; 2514; 2530; 2552; 2568; 2587; 2609; 2625; 2648; 2667; 2681; 2697; 2711; 2731; 2747; 2760; 2782; 2815; 2829; 2849; 2862; 2876; 2930; 2943; 2966; 2979; 2998; 3015; 3042; 3078; 3111; 3130; 3155; 3176; 3203; 3216; 3233; 3247; 3262; 3278; 3338; 3363; 3379; 3401; 3414; 3428; 3459; 3473; 3498; 3516; 3531; 3544; 3563; 3576; 3591; 3620; 3639; 3657; 3682; 3697; 3716; 3732; 3751; 3769; 3785; 3799; 3818; 3845; 3868; 3890; 3909; 3924; 3937; 3954; 3974; 4001; 4014; 4033; 4058; 4081; 4095; 4108; 4125

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNGG	176	5; 25; 54; 71; 94; 112; 135; 158; 188; 211; 235; 253; 270; 290; 311; 329; 360; 388; 405; 423; 445; 467; 493; 517; 535; 567; 584; 605; 622; 648; 673; 691; 715; 736; 754; 788; 806; 835; 864; 906; 989; 1024; 1051; 1074; 1103; 1147; 1169; 1201; 1237; 1254; 1275; 1312; 1332; 1349; 1366; 1401; 1419; 1437; 1454; 1478; 1500; 1527; 1555; 1581; 1619; 1640; 1657; 1675; 1698; 1719; 1747; 1770; 1791; 1809; 1830; 1847; 1870; 1894; 1914; 1932; 1954; 1985; 2007; 2033; 2052; 2069; 2097; 2116; 2135; 2153; 2171; 2192; 2214; 2238; 2271; 2291; 2309; 2330; 2356; 2383; 2400; 2417; 2434; 2460; 2482; 2504; 2522; 2542; 2561; 2583; 2621; 2641; 2665; 2685; 2705; 2732; 2756; 2789; 2808; 2836; 2858; 2887; 2915; 2940; 2959; 2978; 2999; 3016; 3033; 3064; 3091; 3111; 3134; 3154; 3191; 3208; 3227; 3253; 3273; 3312; 3339; 3358; 3376; 3413; 3431; 3472; 3490; 3516; 3533; 3565; 3594; 3622; 3643; 3666; 3685; 3706; 3724; 3741; 3759; 3785; 3806; 3826; 3846; 3864; 3885; 3911; 3928; 3947; 3966; 3995; 4014; 4032; 4051; 4069; 4087; 4110
MspR9I	CC!NGG	16	75; 76; 769; 1690; 1745; 1762; 2158; 2318; 2541; 2931; 3120; 3223; 3695; 3913; 3926; 4047
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	904
MvaI	CC!WGG	9	1690; 1745; 1762; 2541; 3120; 3223; 3913; 3926; 4047
Mva1269I	GAATGCN!	1	905
Mva1269I	G!CATTC	1	998
MvnI	CG!CG	18	69; 443; 599; 704; 803; 1078; 1454; 1474; 1498; 1529; 2220; 2521; 2959; 3043; 3106; 3175; 3448; 4029
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	26	110; 149; 194; 242; 449; 581; 605; 1381; 1411; 1438; 1480; 1721; 1793; 1844; 1923; 2145; 2229; 2252; 2391; 2514; 2597; 2864; 3051; 3255; 3454; 4026
NaeI	GCC!GGC	4	438; 1373; 2656; 2939
NarI	GG!CGCC	2	245; 2154
NciI	CC!SGG	7	75; 76; 769; 2158; 2318; 2931; 3695
NcoI	C!CATGG	5	95; 125; 548; 1883; 2586
NdeI	CA!TATG	0	
NdeII	!GATC	25	27; 78; 131; 446; 494; 509; 561; 714; 811; 1991; 1995; 2014; 2325; 2403; 2484; 2493; 2571; 2947; 2963; 3322; 3334; 3412; 3420; 3431; 3506
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	4	436; 1371; 2654; 2937
NheI	G!CTAGC	0	
NlaIII	CATG!	19	99; 129; 219; 552; 639; 690; 1584; 1724; 1796; 1887; 2028; 2373; 2559; 2590; 2616; 2972; 3356; 4076; 4127
NlaIV	GGN!NCC	22	65; 73; 80; 153; 198; 246; 309; 471; 683; 1309; 1330; 1342; 1533; 1694; 1766; 2155; 2190; 3038; 3117; 3162; 4005; 4044
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	168; 986; 1301; 2893
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	262; 445; 3965
Nii3877I	CYCGR!G	4	35; 78; 206; 485
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	1943; 2379
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	1908
NmeDI	RCCGGYNNNNNNN!	9	96; 160; 448; 484; 793; 1383; 2485; 2666; 2949
NmeDI	!NNNNNNNNNNNNRCCGGY	9	71; 135; 423; 459; 768; 1358; 2460; 2641; 2924
NmuCI	!GTSAC	3	1443; 2274; 2580
NotI	GC!GGCCGC	1	798
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2256
NsiI	ATGCA!T	3	1726; 1798; 4129
NspI	RCATG!Y	5	639; 1724; 1796; 2559; 4076
NspV	TT!CGAA	2	45; 2836
OliI	CACNN!NNGTG	0	
PabI	GTA!C	4	66; 389; 749; 2461
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1724; 1796; 2559
PaeR7I	C!TCGAG	1	31
PagI	T!CATGA	2	1580; 3352

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PaIAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3119; 3222
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	1975
PciI	A!CATGT	1	4072
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	226; 2498; 2708
PcsI	WCGNNNN!NNNCGW	7	386; 2448; 2525; 2768; 2842; 3235; 3753
PctI	GAATGCN!	1	905
PctI	G!CATTC	1	998
PdiI	GCC!GGC	4	438; 1373; 2656; 2939
PdmI	GAANN!NNTTC	1	334
PfeI	G!AWTC	5	2639; 2773; 2883; 2920; 4098
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2272
PfIMI	CCANNNN!NTGG	1	282
PfoI	T!CCNGGA	1	2929
PhoI	GG!CC	24	73; 116; 212; 436; 440; 683; 800; 1120; 1262; 1917; 1923; 1932; 1975; 2062; 2236; 2627; 2654; 3163; 3220; 3253; 3598; 4032; 4050; 4061
PinAI	A!CCGGT	1	84
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	2535
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2100; 2355
PleI	GAGTCNNNN!	2	1205; 1637
PleI	!NNNNNGACTC	5	16; 799; 1213; 2819; 3696
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	2	279; 411
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	2	279; 411
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1236
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3366
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3398
PpiI	!NNNNNNNGAACNNNNNCTC	1	1204
Ppsi	GAGTCNNNN!	2	1205; 1637
Ppsi	!NNNNNGACTC	5	16; 799; 1213; 2819; 3696
Ppu10I	A!TGCAT	3	1722; 1794; 4125
Ppu21I	YAC!GTR	4	279; 411; 1270; 2458
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4072
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	2	937; 1142
Psp03I	GGWC!C	2	2673; 3118
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	9	1688; 1743; 1760; 2539; 3118; 3221; 3911; 3924; 4045
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	38
PspCI	CAC!GTG	2	279; 411
PspEI	G!GTNACC	0	
PspGI	!CCWGG	9	1688; 1743; 1760; 2539; 3118; 3221; 3911; 3924; 4045
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	65; 73; 80; 153; 198; 246; 309; 471; 683; 1309; 1330; 1342; 1533; 1694; 1766; 2155; 2190; 3038; 3117; 3162; 4005; 4044
PspOMI	G!GGCCC	2	71; 681
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	2	1884; 2883
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2286
PspPI	G!GNCC	11	71; 72; 210; 681; 682; 1261; 2670; 3115; 3161; 3219; 3252
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	5	335; 680; 1707; 1779; 3285
PspPRI	!NNNNNNNNNNNNNNCTGRGG	2	1620; 2815
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PssI	RGGNC!CY	2	684; 3255
PstI	CTGCA!G	2	56; 674
PstNI	CAGNNN!CTG	2	3255; 3663
PsuI	R!GATCY	9	27; 78; 2325; 2571; 2963; 3322; 3334; 3420; 3431
PsyI	GACN!NNGTC	1	2272
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1652; 2260
RcaI	T!CATGA	2	1580; 3352
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	2669
RceI	!NNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	1	440
RleAI	CCCACANNNNNNNNNNNN!	1	883
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	2	416; 509
RpaB5I	!NNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	4	65; 388; 748; 2460
RsaNI	G!TAC	4	64; 387; 747; 2459
RseI	CAYNN!NNRTG	1	2591
RsrII	CG!GWCCG	1	2670
Rsr2I	CG!GWCCG	1	2670
SacI	GAGCT!C	1	38
SacII	CCGC!GG	1	70
SalI	G!TCGAC	1	57
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	226; 2498; 2708
SaqAI	T!TAA	14	855; 916; 1037; 1058; 1069; 1081; 1092; 1109; 1207; 1478; 3297; 3311; 3316; 3368
SatI	GC!NGC	43	114; 141; 186; 213; 321; 360; 399; 406; 441; 519; 573; 606; 702; 798; 801; 931; 1450; 1472; 1486; 1924; 2063; 2115; 2126; 2216; 2221; 2258; 2299; 2386; 2389; 2392; 2628; 2724; 2765; 2779; 2893; 3232; 3247; 3458; 3664; 3667; 3732; 3875; 4030
Sau96I	G!GNCC	11	71; 72; 210; 681; 682; 1261; 2670; 3115; 3161; 3219; 3252
Sau3AI	!GATC	25	27; 78; 131; 446; 494; 509; 561; 714; 811; 1991; 1995; 2014; 2325; 2403; 2484; 2493; 2571; 2947; 2963; 3322; 3334; 3412; 3420; 3431; 3506
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1206; 1638
SchI	!NNNNNGACTC	5	16; 799; 1213; 2819; 3696
SciI	CTC!GAG	1	33
ScrFI	CC!NGG	16	75; 76; 769; 1690; 1745; 1762; 2158; 2318; 2541; 2931; 3120; 3223; 3695; 3913; 3926; 4047
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	4	1732; 1804; 1973; 3915
SdeAI	!NNNNNNNNNNNNNNNNNCTYCTG	2	2309; 2794
SdeOSI	GACNNNRTGANNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNGTC	0	
SdeOSI	TCAYNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	15	38; 75; 199; 238; 472; 539; 685; 1345; 2100; 2193; 2267; 2457; 2519; 3229; 3762
SelI	!CGCG	18	67; 441; 597; 702; 801; 1076; 1452; 1472; 1496; 1527; 2218; 2519; 2957; 3041; 3104; 3173; 3446; 4027
SetI	ASST!	56	38; 44; 179; 256; 269; 281; 313; 413; 418; 424; 464; 542; 577; 589; 619; 734; 844; 865; 874; 886; 935; 1102; 1217; 1229; 1272; 1309; 1359; 1382; 1506; 1654; 1749; 1942; 2055; 2183; 2262; 2273; 2345; 2416; 2460; 2720; 2866; 2910; 3241; 3272; 3331; 3374; 3517; 3538; 3637; 3774; 3789; 3808; 3820; 3864; 3910; 3961
SexAI	A!CCWGGT	1	1743
SfaAI	GCGAT!CGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SfaNI	GCATCNNNNN!	10	152; 386; 674; 746; 970; 1733; 1805; 2453; 2517; 2792
SfaNI	!NNNNNNNNNGATGC	5	762; 2112; 2367; 2583; 3975
SfcI	C!TRYAG	6	52; 612; 670; 1489; 3616; 3807
SfiI	GGCCNNNN!NGGCC	1	1929
SfoI	GGC!GCC	2	246; 2155
Sfr274I	C!TCGAG	1	31
Sfr303I	CCGC!GG	1	70
SfuI	TT!CGAA	2	45; 2836
SgeI	CNNGNNNNNNNNN!	173	6; 22; 43; 80; 97; 120; 133; 147; 161; 177; 190; 214; 228; 261; 279; 329; 351; 386; 402; 421; 444; 471; 485; 504; 519; 543; 561; 577; 593; 606; 633; 648; 674; 690; 715; 741; 762; 780; 794; 814; 861; 890; 932; 1015; 1089; 1173; 1195; 1227; 1264; 1282; 1301; 1316; 1358; 1375; 1392; 1427; 1441; 1458; 1480; 1504; 1528; 1593; 1607; 1645; 1661; 1701; 1714; 1733; 1756; 1773; 1786; 1805; 1835; 1856; 1873; 1896; 1931; 1958; 1989; 2011; 2037; 2059; 2078; 2106; 2142; 2161; 2184; 2198; 2218; 2231; 2245; 2264; 2278; 2297; 2329; 2343; 2356; 2382; 2413; 2426; 2443; 2460; 2474; 2491; 2509; 2524; 2552; 2568; 2587; 2609; 2625; 2648; 2667; 2692; 2711; 2731; 2758; 2782; 2815; 2834; 2862; 2876; 2942; 2966; 2981; 3004; 3025; 3042; 3090; 3117; 3131; 3160; 3184; 3217; 3234; 3254; 3267; 3280; 3338; 3365; 3384; 3414; 3439; 3459; 3473; 3498; 3516; 3553; 3591; 3620; 3648; 3662; 3682; 3697; 3718; 3732; 3751; 3769; 3785; 3825; 3845; 3872; 3890; 3911; 3924; 3937; 3954; 3978; 4001; 4033; 4058; 4085; 4107
SgeI	!NNNNNNNNNNNNCNG	150	5; 25; 54; 71; 94; 112; 135; 160; 188; 211; 235; 253; 303; 325; 360; 388; 418; 445; 467; 493; 517; 535; 567; 584; 607; 631; 648; 673; 691; 715; 736; 754; 788; 835; 864; 906; 989; 1063; 1147; 1169; 1201; 1238; 1256; 1275; 1332; 1349; 1366; 1401; 1419; 1439; 1459; 1478; 1502; 1567; 1619; 1675; 1707; 1730; 1747; 1779; 1809; 1830; 1847; 1870; 1905; 1932; 1963; 1985; 2011; 2033; 2052; 2080; 2116; 2135; 2158; 2179; 2197; 2214; 2238; 2271; 2303; 2330; 2356; 2387; 2417; 2434; 2460; 2483; 2504; 2526; 2546; 2566; 2583; 2622; 2641; 2666; 2685; 2705; 2732; 2756; 2789; 2808; 2836; 2858; 2916; 2940; 2959; 2978; 2999; 3016; 3064; 3091; 3111; 3134; 3158; 3191; 3208; 3228; 3254; 3312; 3339; 3358; 3388; 3413; 3433; 3472; 3490; 3527; 3565; 3594; 3622; 3643; 3671; 3692; 3725; 3743; 3799; 3819; 3846; 3864; 3885; 3911; 3928; 3952; 3975; 4007; 4032; 4059; 4081; 4110
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	70
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1301; 3088; 3881
SimI	!GACCC	4	764; 2582; 3150; 3398
SinI	G!GWCC	2	2670; 3115
SlaI	C!TCGAG	1	31
SmaI	CCC!GGG	1	76
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	1	2591
SmlI	C!TYRAG	7	31; 37; 1036; 2545; 3427; 3704; 3966
SmoI	C!TYRAG	7	31; 37; 1036; 2545; 3427; 3704; 3966
SmuI	CCCGCNNNN!	8	129; 382; 589; 1476; 1831; 1852; 3048; 3180
SmuI	!NNNNNNGCGGG	6	62; 1407; 2277; 2814; 2952; 3099
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1724; 1796; 2559
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	47; 904; 968; 1046; 1072; 1083; 1730; 1802; 1894; 3312
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	1975
SsiI	C!CGC	36	67; 122; 141; 213; 375; 426; 441; 516; 582; 699; 702; 801; 1469; 1472; 1486; 1576; 1824; 1836; 1845; 1857; 1867; 1878; 1924; 2063; 2126; 2628; 2673; 2739; 2765; 2890; 2893; 3041; 3173; 3480; 3624; 4120

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	G!CGG	29	69; 113; 185; 188; 320; 359; 398; 605; 797; 1414; 1441; 1529; 1639; 2220; 2284; 2385; 2388; 2668; 2723; 2821; 2959; 3106; 3246; 3489; 3734; 3855; 3874; 4001; 4029
SspI	AAT!ATT	2	1062; 1615
SspDI	G!GCGCC	2	244; 2153
SspD5I	GGTGANNNNNNNN!	4	474; 796; 3225; 3341
SspD5I	!NNNNNNNNNTCACC	5	137; 491; 569; 1270; 2331
SstI	GAGCT!C	1	38
SstII	CCGC!GG	1	70
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	19	81; 128; 209; 381; 488; 588; 775; 1353; 1475; 1830; 1851; 2164; 2567; 2706; 2777; 3047; 3179; 3409; 3847
Sth132I	!NNNNNNNNCCGGG	17	61; 669; 1354; 1406; 1507; 2234; 2276; 2309; 2813; 2922; 2951; 3098; 3202; 3233; 3686; 3730; 3938
Sth302II	CC!GG	24	20; 76; 86; 150; 438; 474; 770; 783; 1373; 2060; 2137; 2159; 2187; 2318; 2408; 2475; 2656; 2931; 2939; 3031; 3505; 3695; 3721; 3868
StrI	C!TCGAG	1	31
StsI	GGATGNNNNNNNNNN!	6	581; 785; 2022; 2479; 2504; 2958
StsI	!NNNNNNNNNNNNNNCATCC	3	498; 639; 1826
StuI	AGG!CCT	1	1975
StyI	C!CWWGG	7	95; 125; 548; 1883; 1976; 2586; 2991
StyD4I	!CCNGG	16	73; 74; 767; 1688; 1743; 1760; 2156; 2316; 2539; 2929; 3118; 3221; 3693; 3911; 3924; 4045
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	10	63; 531; 1245; 2534; 2650; 2758; 3081; 3572; 4042; 4113
TaiI	ACGT!	10	281; 413; 1217; 1229; 1272; 1382; 2273; 2460; 3241; 3374
TaqI	T!CGA	17	32; 45; 58; 134; 173; 380; 1303; 1994; 2267; 2423; 2447; 2483; 2645; 2836; 2881; 3136; 3974
TaqII	GACCGANNNNNNNNNNN!	3	1174; 2191; 2859
TaqII	!NNNNNNNNNTCGGTC	1	3103
TaqII	CACCCANNNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	2	2058; 2650
TasI	!AATT	10	47; 904; 968; 1046; 1072; 1083; 1730; 1802; 1894; 3312
TatI	W!GTACW	0	
TauI	GCSG!C	27	116; 143; 188; 215; 323; 362; 401; 443; 608; 704; 800; 803; 1474; 1488; 1926; 2065; 2128; 2223; 2388; 2391; 2630; 2726; 2767; 2895; 3249; 3877; 4032
TfiI	G!AWTC	5	2639; 2773; 2883; 2920; 4098
TliI	C!TCGAG	1	31
TruII	T!TAA	14	855; 916; 1037; 1058; 1069; 1081; 1092; 1109; 1207; 1478; 3297; 3311; 3316; 3368
Tru9I	T!TAA	14	855; 916; 1037; 1058; 1069; 1081; 1092; 1109; 1207; 1478; 3297; 3311; 3316; 3368
TscAI	CASTGNN!	5	1000; 2283; 3393; 3664; 3677
TseI	G!CWGC	16	405; 518; 572; 930; 1449; 2114; 2215; 2257; 2298; 2391; 2778; 3231; 3457; 3663; 3666; 3731
TsoI	TARCCANNNNNNNNNNN!	2	1126; 1473
TsoI	!NNNNNNNNNTGGYTA	2	931; 2683
Tsp45I	!GTSAC	3	1443; 2274; 2580
Tsp509I	!AATT	10	47; 904; 968; 1046; 1072; 1083; 1730; 1802; 1894; 3312
TspDTI	ATGAANNNNNNNNNNN!	4	244; 912; 2213; 2917
TspDTI	!NNNNNNNNNTTCAT	3	2631; 3087; 3294
TspEI	!AATT	10	47; 904; 968; 1046; 1072; 1083; 1730; 1802; 1894; 3312
TspGWI	ACGGANNNNNNNNNNN!	1	3029
TspGWI	!NNNNNNNNNTCCGT	1	609
TspMI	C!CCGGG	1	74
TspRI	CASTGNN!	5	1000; 2283; 3393; 3664; 3677
TstI	CACNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNNGTG	1	121
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	1	153
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2272
Tth111II	CAARCANNNNNNNNNNN!	1	3481
Tth111III	!NNNNNNNNNTGYTTG	3	2589; 3449; 3488

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
UrbI	!GGNCC	11	70; 71; 209; 680; 681; 1260; 2669; 3114; 3160; 3218; 3251
Van91I	CCANNNN!NTGG	1	282
Vha464I	C!TTAAG	1	1036
VneI	G!TGCAC	1	3758
VpaK11AI	!GGWCC	2	2669; 3114
VpaK11BI	G!GWCC	2	2670; 3115
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	47; 968; 1072; 1083
XbaI	T!CTAGA	1	808
XceI	RCATG!Y	5	639; 1724; 1796; 2559; 4076
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	31
XhoII	R!GATCY	9	27; 78; 2325; 2571; 2963; 3322; 3334; 3420; 3431
XmaI	C!CCGGG	1	74
XmaJI	C!CTAGG	2	1976; 2991
XmiI	GT!MKAC	1	58
XmnI	GAANN!NNTTC	1	334
XspI	C!TAG	8	10; 809; 1003; 1421; 1977; 2992; 3326; 3579
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	1726; 1798; 4129