

## pFusionRed-vimentin vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2895; 3100
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	1	1104
AasI	GACNNNN!NNGTC	3	3183; 4139; 5928
AatI	AGG!CCT	2	2482; 3933
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	2633
AccII	CG!CG	21	60; 697; 763; 825; 1068; 1145; 1160; 2761; 3036; 3412; 3432; 3456; 3487; 4178; 4479; 4917; 5001; 5064; 5133; 5406; 5987
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	4214
Acc36I	ACCTGCNNNN!	4	1493; 1799; 4380; 4830
Acc36I	!NNNNNNNNGCAGGT	2	1104; 3999
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	7	465; 691; 2107; 2167; 3265; 4111; 4146
AccB7I	CCANNNN!NTGG	1	2652
AccBSI	CCG!CTC	2	3536; 4725
AccBSI	GAG!CGG	3	2755; 3372; 4779
AceIII	CAGCTCNNNNNNN!	2	1057; 3068
AceIII	!NNNNNNNNNNGAGCTG	5	552; 940; 1090; 1354; 2053
AciI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 669; 695; 741; 783; 933; 972; 1143; 1725; 2366; 2504; 2606; 2759; 3427; 3430; 3444; 3534; 3782; 3794; 3803; 3815; 3825; 3836; 3882; 4021; 4084; 4586; 4631; 4697; 4723; 4848; 4851; 4999; 5131; 5438; 5582; 6078
AciI	G!CGG	32	370; 403; 528; 683; 809; 846; 867; 1098; 2201; 2513; 2555; 2755; 3372; 3399; 3487; 3597; 4178; 4242; 4343; 4346; 4626; 4681; 4779; 4917; 5064; 5204; 5447; 5692; 5813; 5832; 5959; 5987
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	2045; 3980; 4291; 4537; 4929; 5288; 5386; 5472
AclWI	!NNNNNGATCC	8	580; 1017; 2032; 2588; 4356; 4900; 5287; 5384
AcoI	Y!GGCCR	11	703; 899; 1031; 1169; 1722; 2711; 2756; 4018; 4192; 4583; 4610
AcsI	R!AATTY	4	629; 2926; 3030; 3041
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	2563; 4258; 4690
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	1201; 5488
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	10	122; 175; 258; 444; 905; 1556; 2630; 4112; 4814; 4893
AdeI	CACNNN!GTG	2	2703; 3228
AfaI	GT!AC	13	219; 244; 299; 332; 383; 540; 1451; 1507; 1591; 2098; 2248; 2500; 4418
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	35	49; 671; 701; 866; 1086; 1116; 1149; 1173; 1353; 1491; 1533; 1566; 1599; 1731; 1835; 2034; 2164; 2443; 2509; 2652; 3124; 3450; 3842; 4093; 4637; 4918; 4950; 5082; 5117; 5167; 5199; 5552; 5831; 5997; 6015
AfII	C!TTAAG	1	2994
AfIII	A!CRYGT	1	6030
AgeI	A!CCGGT	1	2043
AgsI	TTS!AA	12	924; 1297; 1338; 1696; 1978; 2032; 2130; 3523; 3567; 3577; 3990; 5566
AhdI	GACNNN!NNGTC	1	1272
AhII	A!CTAGT	0	
AjiI	CAC!GTC	1	1285
AjiI	GAC!GTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjnI	!CCWGG	23	88; 281; 643; 752; 1004; 1070; 1166; 1361; 1565; 1652; 2228; 2372; 2387; 2516; 3646; 3701; 3718; 4497; 5076; 5179; 5869; 5882; 6003
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	1775; 2056
AlfI	GCANNNNNTGCGNNNNNNNNNN!	3	781; 3686; 3758
AlfI	!NNNNNNNNNGCANNNNNTGC	3	747; 3652; 3724
AloI	GAACNNNNNTCCNNNNNNNNNN!	2	1411; 3194
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	2	1379; 3162
AluI	AG!CT	29	566; 618; 624; 710; 722; 954; 963; 1038; 1047; 1104; 1125; 1368; 1699; 1842; 2067; 2094; 2240; 2547; 2891; 3058; 3315; 3610; 3898; 4218; 4676; 5473; 5730; 5776; 5866
AluBI	AG!CT	29	566; 618; 624; 710; 722; 954; 963; 1038; 1047; 1104; 1125; 1368; 1699; 1842; 2067; 2094; 2240; 2547; 2891; 3058; 3315; 3610; 3898; 4218; 4676; 5473; 5730; 5776; 5866
AlwI	GGATCNNNN!	8	2045; 3980; 4291; 4537; 4929; 5288; 5386; 5472
AlwI	!NNNNNGATCC	8	580; 1017; 2032; 2588; 4356; 4900; 5287; 5384
Alw21I	GWGCW!C	7	620; 712; 1040; 2137; 4225; 4415; 5720
Alw26I	GTCTCN!	2	434; 1280
Alw26I	!NNNNNGAGAC	8	1590; 2485; 2575; 2674; 3536; 3954; 4973; 5101
Alw44I	G!TGCAC	2	2133; 5716
AlwNI	CAGNN!CTG	4	963; 1368; 5213; 5621
Ama87I	C!YCGRG	5	613; 687; 804; 859; 1039
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNN!TGC	3	3680; 3752; 5214
ApaLI	G!TGCAC	2	2133; 5716
ApeKI	G!CWGC	30	758; 765; 785; 851; 954; 1011; 1044; 1104; 1368; 1435; 1474; 1537; 1699; 1842; 2252; 2396; 2694; 2888; 3407; 4072; 4173; 4215; 4256; 4349; 4736; 5189; 5415; 5621; 5624; 5689
ApoI	R!AATY	4	629; 2926; 3030; 3041
ApyPI	ATCGACNNNNNNNNNNNNNNNN!	2	1013; 4627
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4421; 5074; 5912
AquII	GCCGNACNNNNNNNNNNNNNNNN!	1	4511
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	3	659; 846; 2228
AquIII	GAGGAGNNNNNNNNNNNNNNNN!	4	1112; 1232; 1880; 3940
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	1	809
AquIV	GRGGAAGNNNNNNNNNNNNNNNN!	1	1250
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	4682
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNGTC	2	1130; 1564
ArsI	CRAANNNNNGTCNNNNNNNNNN!	2	1162; 1596
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	23	586; 610; 1023; 2038; 2568; 2594; 2770; 3950; 3954; 3973; 4284; 4362; 4443; 4452; 4530; 4906; 4922; 5281; 5293; 5371; 5379; 5390; 5465
AsiGI	A!CCGGT	1	2043
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	2	732; 4230
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3934; 4949
AspEI	GACNNN!NNGTC	1	1272
AspLEI	GCG!C	34	597; 763; 765; 770; 827; 842; 1001; 1070; 1109; 1160; 1187; 1565; 2527; 2734; 3378; 3386; 3412; 3434; 3443; 3456; 3487; 4106; 4114; 4178; 4215; 4481; 4741; 4917; 5003; 5406; 5515; 5689; 5789; 5856

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AspS9I	G!GNCC	19	83; 276; 647; 685; 1053; 1077; 1119; 1809; 2203; 2446; 2538; 2559; 2643; 3219; 4628; 5073; 5119; 5177; 5210
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 4794
AsuC2I	CC!SGG	13	688; 689; 805; 806; 860; 861; 1192; 2279; 2627; 4116; 4276; 4889; 5653
AsuHPI	GGTGANNNNNNNN!	6	376; 2070; 2439; 2749; 5183; 5299
AsuHPI	!NNNNNNNTCACC	5	1605; 1762; 2328; 3229; 4290
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	5	613; 687; 804; 859; 1039
AvaII	G!GWCC	6	647; 1077; 1119; 2643; 4628; 5073
AviII	TGC!GCA	1	4214
AvrII	C!CTAGG	2	3934; 4949
AxyI	CC!TNAGG	4	1903; 2312; 3592; 5224
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	8	694; 860; 2110; 2137; 2170; 4058; 4151; 5720
BalI	TGG!CCA	2	2713; 4194
BamHI	G!GATCC	1	2037
BanI	G!GYRCC	7	465; 691; 2107; 2167; 3265; 4111; 4146
BanII	GRGCY!C	6	620; 712; 1040; 3303; 4477; 5187
BanIII	AT!CGAT	2	1403; 3952
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	2652
BauI	C!ACGAG	3	2698; 4830; 5857
BauI	C!TCGTG	2	2548; 4704
BbeI	GGCGC!C	1	4115
Bbr7I	GAAGACNNNNNN!	1	2359
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	2354
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	3682; 3754; 4517
BbvI	GCAGCNNNNNN!	13	770; 797; 863; 1023; 1056; 2264; 2706; 2900; 4185; 4227; 4748; 5201; 5701
BbvI	!NNNNNNNNNNNGCTGC	16	752; 941; 1091; 1355; 1422; 1461; 1524; 1686; 1829; 2383; 3394; 4059; 4243; 4336; 5402; 5608
Bbv12I	GWGCW!C	7	620; 712; 1040; 2137; 4225; 4415; 5720
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	916; 3242; 3806; 4332; 4834
BccI	!NNNNNGATGG	6	1800; 1981; 2734; 3210; 3990; 4418
BceAI	ACGGCNNNNNNNNNN!	7	1448; 2265; 2409; 2460; 2526; 4538; 5025
BceAI	!NNNNNNNNNNNNNGCCGT	5	820; 1675; 3253; 4071; 5530
Bcefl	ACGGCNNNNNNNNNN!	7	1448; 2265; 2409; 2460; 2526; 4538; 5025
Bcefl	!NNNNNNNNNNNNNGCCGT	5	821; 1676; 3254; 4072; 5531
BcgI	CGANNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	1	660
BcgI	GCANNNNNTGCNNNNNNNNNN!	1	694
BcgI	!NNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	3541; 4331; 5832
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	13	688; 689; 805; 806; 860; 861; 1192; 2279; 2627; 4116; 4276; 4889; 5653
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	2	1469; 5965
BdaI	!NNNNNNNNNTGANNNNNTCA	2	1435; 5931
BfaI	C!TAG	9	592; 1982; 2767; 2961; 3379; 3935; 4950; 5284; 5537
BfiI	ACTGGGNNNN!	1	4061

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BfiI	!NNNNCCCAGT	2	289; 3813
BfmI	C!TRYAG	10	747; 874; 955; 1369; 1486; 1729; 1833; 3447; 5574; 5765
BfoI	RGCGC!Y	6	598; 2735; 3379; 3387; 4115; 5790
BfrI	C!TTAAG	1	2994
BfuI	GATACNNNNNN!	3	3541; 4331; 5832
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	1493; 1799; 4380; 4830
BfuAI	!NNNNNNNGCAGGT	2	1104; 3999
BfuCI	!GATC	23	585; 609; 1022; 2037; 2567; 2593; 2769; 3949; 3953; 3972; 4283; 4361; 4442; 4451; 4529; 4905; 4921; 5280; 5292; 5370; 5378; 5389; 5464
BglI	GCCNNNN!NGGC	5	90; 212; 283; 2522; 3887
BglII	A!GATCT	1	609
BisI	GC!NGC	53	684; 759; 766; 786; 810; 852; 868; 955; 1012; 1045; 1105; 1369; 1436; 1475; 1538; 1700; 1725; 1843; 2202; 2253; 2397; 2514; 2695; 2756; 2759; 2889; 3408; 3430; 3444; 3882; 4021; 4073; 4084; 4174; 4179; 4216; 4257; 4344; 4347; 4350; 4586; 4682; 4723; 4737; 4851; 5190; 5205; 5416; 5622; 5625; 5690; 5833; 5988
BlnI	C!CTAGG	2	3934; 4949
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	53	685; 760; 767; 787; 811; 853; 869; 956; 1013; 1046; 1106; 1370; 1437; 1476; 1539; 1701; 1726; 1844; 2203; 2254; 2398; 2515; 2696; 2757; 2760; 2890; 3409; 3431; 3445; 3883; 4022; 4074; 4085; 4175; 4180; 4217; 4258; 4345; 4348; 4351; 4587; 4683; 4724; 4738; 4852; 5191; 5206; 5417; 5623; 5626; 5691; 5834; 5989
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	6	647; 1077; 1119; 2643; 4628; 5073
Bme1390I	CC!NGG	36	90; 283; 645; 688; 689; 754; 805; 806; 860; 861; 1006; 1072; 1168; 1192; 1363; 1567; 1654; 2230; 2279; 2374; 2389; 2518; 2627; 3648; 3703; 3720; 4116; 4276; 4499; 4889; 5078; 5181; 5653; 5871; 5884; 6005
BmeRI	GACNNN!NNGTC	1	1272
BmeT110I	C!YCGRG	5	613; 687; 804; 859; 1039
BmgBI	CAC!GTC	1	1285
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	19	84; 277; 648; 686; 1054; 1078; 1120; 1810; 2204; 2447; 2539; 2560; 2644; 3220; 4629; 5074; 5120; 5178; 5211
BmiI	GGN!NCC	22	467; 693; 871; 1078; 1641; 2039; 2109; 2169; 2560; 3267; 3288; 3300; 3491; 3652; 3724; 4113; 4148; 4996; 5075; 5120; 5963; 6002
BmrI	ACTGGGNNNNN!	1	4061
BmrI	!NNNNCCCAGT	2	289; 3813
BmrFI	CC!NGG	36	90; 283; 645; 688; 689; 754; 805; 806; 860; 861; 1006; 1072; 1168; 1192; 1363; 1567; 1654; 2230; 2279; 2374; 2389; 2518; 2627; 3648; 3703; 3720; 4116; 4276; 4499; 4889; 5078; 5181; 5653; 5871; 5884; 6005
BmsI	GCATCNNNNN!	8	2025; 2291; 2928; 3691; 3763; 4411; 4475; 4750
BmsI	!NNNNNNNNNGATGC	11	357; 1085; 1202; 1617; 1655; 2444; 2612; 4070; 4325; 4541; 5933
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	4061
BmuI	!NNNNCCCAGT	2	289; 3813
BoxI	GACNN!NNGTC	2	1451; 2686
BpiI	GAAGACNN!	1	2354
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNCTCNNNNNNNNNNNN!	2	3901; 4800
BpI	!NNNNNNNNNGAGNNNNNNCTC	2	3869; 4768
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	1027; 4952
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	3	696; 2371; 4895
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4794
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	2354
BpuAI	!NNNNNNGTCTTC	0	

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BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	2599; 5406; 5945
BpuEI	!NNNNNNNNNNNNNNCTCAAG	5	604; 1033; 2602; 4488; 5647
BpuMI	CC!SGG	13	688; 689; 805; 806; 860; 861; 1192; 2279; 2627; 4116; 4276; 4889; 5653
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	2575; 2674; 5101
Bsa29I	AT!CGAT	2	1403; 3952
BsaAI	YAC!GTR	4	340; 726; 3228; 4416
BsaBI	GATNN!NNATC	2	2774; 3971
BsaHI	GR!CGYC	10	122; 175; 258; 444; 905; 1556; 2630; 4112; 4814; 4893
BsaJI	C!CNNGG	27	360; 687; 753; 804; 859; 860; 1056; 1071; 1172; 1652; 2054; 2141; 2372; 3646; 3718; 3841; 3876; 3885; 3934; 4275; 4544; 4949; 5076; 5077; 5179; 5180; 5870
BsaMI	GAATGCN!	1	2863
BsaMI	G!CATTC	1	2956
BsaWI	W!CCGGW	8	600; 1544; 1592; 2043; 4143; 4987; 5677; 5824
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	1906; 3192
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	1876; 3162
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	1	938
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	3113; 5020
Bsc4I	CCNNNNN!NNGG	35	49; 671; 701; 866; 1086; 1116; 1149; 1173; 1353; 1491; 1533; 1566; 1599; 1731; 1835; 2034; 2164; 2443; 2509; 2652; 3124; 3450; 3842; 4093; 4637; 4918; 4950; 5082; 5117; 5167; 5199; 5552; 5831; 5997; 6015
BscAI	GCATCNNNN!	8	2024; 2290; 2927; 3690; 3762; 4410; 4474; 4749
BscAI	!NNNNNNGATGC	11	360; 1088; 1205; 1620; 1658; 2447; 2615; 4073; 4328; 4544; 5936
BseI	ACTGGN!	5	2657; 2730; 4056; 4257; 5503
BseI	C!CAGT	5	295; 3141; 3819; 5615; 5628
Bse8I	GATNN!NNATC	2	2774; 3971
Bse21I	CC!TNAGG	4	1903; 2312; 3592; 5224
Bse118I	R!CCGGY	7	701; 1109; 2043; 3329; 4431; 4612; 4895
BseAI	T!CCGGA	0	
BseBI	CC!WGG	23	90; 283; 645; 754; 1006; 1072; 1168; 1363; 1567; 1654; 2230; 2374; 2389; 2518; 3648; 3703; 3720; 4499; 5078; 5181; 5871; 5884; 6005
BseCI	AT!CGAT	2	1403; 3952
BseDI	C!CNNGG	27	360; 687; 753; 804; 859; 860; 1056; 1071; 1172; 1652; 2054; 2141; 2372; 3646; 3718; 3841; 3876; 3885; 3934; 4275; 4544; 4949; 5076; 5077; 5179; 5180; 5870
Bse3DI	GCAATGNN!	1	4345
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	9	680; 1266; 1416; 1632; 1740; 3972; 4429; 4454; 4908
BseGI	!CATCC	4	2137; 2225; 2282; 3798
BseJI	GATNN!NNATC	2	2774; 3971
BseLI	CCNNNNN!NNGG	35	49; 671; 701; 866; 1086; 1116; 1149; 1173; 1353; 1491; 1533; 1566; 1599; 1731; 1835; 2034; 2164; 2443; 2509; 2652; 3124; 3450; 3842; 4093; 4637; 4918; 4950; 5082; 5117; 5167; 5199; 5552; 5831; 5997; 6015
BseMI	GCAATGNN!	1	4345
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	4	620; 1390; 2026; 5238
BseMII	!NNNNNNNNCTGAG	9	1523; 1577; 1894; 2303; 3583; 3885; 4766; 5338; 5747
BseNI	ACTGGN!	5	2657; 2730; 4056; 4257; 5503
BseNI	C!CAGT	5	295; 3141; 3819; 5615; 5628
BsePI	G!CGCGC	1	761
BseRI	GAGGAGNNNNNNNNNN!	4	1102; 1222; 1870; 3930
BseRI	!NNNNNNNNCTCCTC	1	819
BseSI	GKGCMI!C	8	694; 860; 2110; 2137; 2170; 4058; 4151; 5720
BseXI	GCAGCNNNNNNNN!	13	770; 797; 863; 1023; 1056; 2264; 2706; 2900; 4185; 4227; 4748; 5201; 5701
BseXI	!NNNNNNNNNNNGCTGC	16	752; 941; 1091; 1355; 1422; 1461; 1524; 1686; 1829; 2383; 3394; 4059; 4243; 4336; 5402; 5608
BseX3I	C!GGCCG	3	703; 2756; 4018

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BseYI	C!CCAGC	5	772; 2436; 3655; 3727; 5726
BseYI	G!CTGGG	2	2474; 4616
BsgI	GTGCAGNNNNNNNNNNNNNNNNNN!	1	1624
BsgI	!NNNNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	21	60; 697; 763; 825; 1068; 1145; 1160; 2761; 3036; 3412; 3432; 3456; 3487; 4178; 4479; 4917; 5001; 5064; 5133; 5406; 5987
Bsh1285I	CGRY!CG	5	706; 2048; 2759; 4021; 5696
BshFI	GG!CC	36	84; 277; 686; 705; 901; 1033; 1055; 1171; 1724; 1810; 2204; 2447; 2482; 2516; 2539; 2561; 2671; 2713; 2758; 3078; 3220; 3875; 3881; 3890; 3933; 4020; 4194; 4585; 4612; 5121; 5178; 5211; 5556; 5990; 6008; 6019
BshNI	G!GYRCC	7	465; 691; 2107; 2167; 3265; 4111; 4146
BshTI	A!CCGGT	1	2043
BshVI	AT!CGAT	2	1403; 3952
BsiEI	CGRY!CG	5	706; 2048; 2759; 4021; 5696
BsiHKAI	GWGCW!C	7	620; 712; 1040; 2137; 4225; 4415; 5720
BsiHKCI	C!YCGRG	5	613; 687; 804; 859; 1039
BsiSI	C!CGG	29	601; 688; 702; 717; 805; 860; 1110; 1191; 1545; 1593; 2044; 2278; 2627; 3330; 4017; 4094; 4116; 4144; 4275; 4365; 4432; 4613; 4888; 4896; 4988; 5462; 5652; 5678; 5825
BsiWI	C!GTACG	1	1449
BsII	CCNNNNN!NNGG	35	49; 671; 701; 866; 1086; 1116; 1149; 1173; 1353; 1491; 1533; 1566; 1599; 1731; 1835; 2034; 2164; 2443; 2509; 2652; 3124; 3450; 3842; 4093; 4637; 4918; 4950; 5082; 5117; 5167; 5199; 5552; 5831; 5997; 6015
BsIFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1090; 4263; 4795; 4904
BsIFI	!NNNNNNNNNNNNNNNGTCCC	7	786; 1593; 1635; 3628; 3700; 3764; 5059
BsmI	GAATGCN!	1	2863
BsmI	G!CATTC	1	2956
BsmAI	GTCTCN!	2	434; 1280
BsmAI	!NNNNNGAGAC	8	1590; 2485; 2575; 2674; 3536; 3954; 4973; 5101
BsmBI	CGTCTCN!	1	1280
BsmBI	!NNNNNGAGACG	1	2485
BsmFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1090; 4263; 4795; 4904
BsmFI	!NNNNNNNNNNNNNNNGTCCC	7	786; 1593; 1635; 3628; 3700; 3764; 5059
BsnI	GG!CC	36	84; 277; 686; 705; 901; 1033; 1055; 1171; 1724; 1810; 2204; 2447; 2482; 2516; 2539; 2561; 2671; 2713; 2758; 3078; 3220; 3875; 3881; 3890; 3933; 4020; 4194; 4585; 4612; 5121; 5178; 5211; 5556; 5990; 6008; 6019
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	2575; 2674; 5101
BsoBI	C!YCGRG	5	613; 687; 804; 859; 1039
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 2054; 3841; 4544
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4915
Bsp24I	!NNNNNNCCANNNNNNNGTC	3	1048; 5336; 5514
Bsp24I	CCANNNNNNGTCTNNNNNNNNNN!	3	1080; 5368; 5546
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 4883
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4794
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	23	585; 609; 1022; 2037; 2567; 2593; 2769; 3949; 3953; 3972; 4283; 4361; 4442; 4451; 4529; 4905; 4921; 5280; 5292; 5370; 5378; 5389; 5464
Bsp1286I	GDGCH!C	16	620; 694; 712; 860; 1040; 2110; 2137; 2170; 3303; 4058; 4151; 4225; 4415; 4477; 5187; 5720
Bsp1407I	T!GTACA	1	2096
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 669; 695; 741; 783; 933; 972; 1143; 1725; 2366; 2504; 2606; 2759; 3427; 3430; 3444; 3534; 3782; 3794; 3803; 3815; 3825; 3836; 3882; 4021; 4084; 4586; 4631; 4697; 4723; 4848; 4851; 4999; 5131; 5438; 5582; 6078
BspACI	G!CGG	32	370; 403; 528; 683; 809; 846; 867; 1098; 2201; 2513; 2555; 2755; 3372; 3399; 3487; 3597; 4178; 4242; 4343; 4346; 4626; 4681; 4779; 4917; 5064; 5204; 5447; 5692; 5813; 5832; 5959; 5987
BspCNI	CTCAGNNNNNNNN!	4	619; 1389; 2025; 5237

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspCNI	!NNNNNNNCTGAG	9	1524; 1578; 1895; 2304; 3584; 3886; 4767; 5339; 5748
BspDI	AT!CGAT	2	1403; 3952
BspD6I	GACTCNNNN!	7	418; 612; 888; 2771; 3185; 4791; 5668
BspD6I	!NNNNNNGAGTC	5	1572; 1641; 2326; 3148; 3580
BspEI	T!CCGGA	0	
BspFNI	CG!CG	21	60; 697; 763; 825; 1068; 1145; 1160; 2761; 3036; 3412; 3432; 3456; 3487; 4178; 4479; 4917; 5001; 5064; 5133; 5406; 5987
BspHI	T!CATGA	2	3538; 5310
BspLI	GGN!NCC	22	467; 693; 871; 1078; 1641; 2039; 2109; 2169; 2560; 3267; 3288; 3300; 3491; 3652; 3724; 4113; 4148; 4996; 5075; 5120; 5963; 6002
BspMI	ACCTGCNNNN!	4	1493; 1799; 4380; 4830
BspMI	!NNNNNNNNGCAGGT	2	1104; 3999
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	2045; 3980; 4291; 4537; 4929; 5288; 5386; 5472
BspPI	!NNNNNGATCC	8	580; 1017; 2032; 2588; 4356; 4900; 5287; 5384
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	4456; 4666
BspTI	C!TTAAG	1	2994
BspT104I	TT!CGAA	2	627; 4794
BspT107I	G!GYRCC	7	465; 691; 2107; 2167; 3265; 4111; 4146
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	2575; 2674; 5101
BsrI	ACTGGN!	5	2657; 2730; 4056; 4257; 5503
BsrI	C!CAGT	5	295; 3141; 3819; 5615; 5628
BsrBI	CCG!CTC	2	3536; 4725
BsrBI	GAG!CGG	3	2755; 3372; 4779
BsrDI	GCAATGNN!	1	4345
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	701; 1109; 2043; 3329; 4431; 4612; 4895
BsrGI	T!GTACA	1	2096
BsrSI	ACTGGN!	5	2657; 2730; 4056; 4257; 5503
BsrSI	C!CAGT	5	295; 3141; 3819; 5615; 5628
BssAI	R!CCGGY	7	701; 1109; 2043; 3329; 4431; 4612; 4895
BssECI	C!CNNGG	27	360; 687; 753; 804; 859; 860; 1056; 1071; 1172; 1652; 2054; 2141; 2372; 3646; 3718; 3841; 3876; 3885; 3934; 4275; 4544; 4949; 5076; 5077; 5179; 5180; 5870
BssHII	G!CGCGC	1	761
BssKI	!CCNGG	36	88; 281; 643; 686; 687; 752; 803; 804; 858; 859; 1004; 1070; 1166; 1190; 1361; 1565; 1652; 2228; 2277; 2372; 2387; 2516; 2625; 3646; 3701; 3718; 4114; 4274; 4497; 4887; 5076; 5179; 5651; 5869; 5882; 6003
BssMI	!GATC	23	585; 609; 1022; 2037; 2567; 2593; 2769; 3949; 3953; 3972; 4283; 4361; 4442; 4451; 4529; 4905; 4921; 5280; 5292; 5370; 5378; 5389; 5464
BssNI	GR!CGYC	10	122; 175; 258; 444; 905; 1556; 2630; 4112; 4814; 4893
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	2698; 4830; 5857
BssSI	C!TCGTG	2	2548; 4704
BssT1I	C!CWWGG	7	360; 1056; 2054; 3841; 3934; 4544; 4949
Bst6I	CTCTCN!	1	1883
Bst6I	!NNNNGAAGAG	6	1316; 1346; 1673; 3579; 4456; 4666
Bst98I	C!TTAAG	1	2994
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 905; 1556; 2630; 4112; 4814; 4893
BstAFI	C!TTAAG	1	2994
BstAPI	GCANNNN!NTGC	3	3679; 3751; 5213
BstAUI	T!GTACA	1	2096
BstBI	TT!CGAA	2	627; 4794
Bst2BI	C!ACGAG	3	2698; 4830; 5857
Bst2BI	C!TCGTG	2	2548; 4704
BstBAI	YAC!GTR	4	340; 726; 3228; 4416
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 1974; 2112; 3203; 4492; 4608; 4716; 5039; 5530; 6000; 6071

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstC8I	GCN!NGC	42	86; 279; 593; 699; 703; 763; 844; 856; 899; 1031; 1111; 1143; 1373; 1729; 2065; 2155; 2359; 3331; 3374; 3388; 3661; 3680; 3733; 3752; 4006; 4192; 4411; 4477; 4483; 4511; 4515; 4556; 4560; 4614; 4897; 5084; 5131; 5187; 5209; 5420; 5980; 6017
BstDEI	C!TNAG	13	606; 1376; 1532; 1586; 1903; 2012; 2312; 3592; 3894; 4775; 5224; 5347; 5756
BstDSI	C!CRYGG	4	360; 2054; 3841; 4544
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	6	669; 1084; 1171; 1489; 1531; 1564
BstF5I	GGATGNN!	9	680; 1266; 1416; 1632; 1740; 3972; 4429; 4454; 4908
BstF5I	!CATCC	4	2137; 2225; 2282; 3798
BstFNI	CG!CG	21	60; 697; 763; 825; 1068; 1145; 1160; 2761; 3036; 3412; 3432; 3456; 3487; 4178; 4479; 4917; 5001; 5064; 5133; 5406; 5987
BstH2I	RGCGC!Y	6	598; 2735; 3379; 3387; 4115; 5790
BstHHI	GCG!C	34	597; 763; 765; 770; 827; 842; 1001; 1070; 1109; 1160; 1187; 1565; 2527; 2734; 3378; 3386; 3412; 3434; 3443; 3456; 3487; 4106; 4114; 4178; 4215; 4481; 4741; 4917; 5003; 5406; 5515; 5689; 5789; 5856
BstKTI	GAT!C	23	588; 612; 1025; 2040; 2570; 2596; 2772; 3952; 3956; 3975; 4286; 4364; 4445; 4454; 4532; 4908; 4924; 5283; 5295; 5373; 5381; 5392; 5467
BstMAI	GTCTCN!	2	434; 1280
BstMAI	!NNNNNGAGAC	8	1590; 2485; 2575; 2674; 3536; 3954; 4973; 5101
BstMBI	!GATC	23	585; 609; 1022; 2037; 2567; 2593; 2769; 3949; 3953; 3972; 4283; 4361; 4442; 4451; 4529; 4905; 4921; 5280; 5292; 5370; 5378; 5389; 5464
BstMCI	CGRY!CG	5	706; 2048; 2759; 4021; 5696
BstMWI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 689; 707; 749; 767; 782; 848; 864; 960; 1035; 1067; 1104; 1279; 1696; 1859; 2091; 2522; 3339; 3369; 3396; 3438; 3679; 3751; 3802; 3881; 4103; 4187; 4210; 4349; 4472; 4555; 4822; 5009; 5213; 5412; 5984
BstNI	CC!WGG	23	90; 283; 645; 754; 1006; 1072; 1168; 1363; 1567; 1654; 2230; 2374; 2389; 2518; 3648; 3703; 3720; 4499; 5078; 5181; 5871; 5884; 6005
BstNSI	RCATG!Y	7	1396; 2085; 2531; 3682; 3754; 4517; 6034
BstOI	CC!WGG	23	90; 283; 645; 754; 1006; 1072; 1168; 1363; 1567; 1654; 2230; 2374; 2389; 2518; 3648; 3703; 3720; 4499; 5078; 5181; 5871; 5884; 6005
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	2	1451; 2686
BstSCI	!CCNGG	36	88; 281; 643; 686; 687; 752; 803; 804; 858; 859; 1004; 1070; 1166; 1190; 1361; 1565; 1652; 2228; 2277; 2372; 2387; 2516; 2625; 3646; 3701; 3718; 4114; 4274; 4497; 4887; 5076; 5179; 5651; 5869; 5882; 6003
BstSFI	C!TRYAG	10	747; 874; 955; 1369; 1486; 1729; 1833; 3447; 5574; 5765
BstSLI	GKGCM!C	8	694; 860; 2110; 2137; 2170; 4058; 4151; 5720
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	21	60; 697; 763; 825; 1068; 1145; 1160; 2761; 3036; 3412; 3432; 3456; 3487; 4178; 4479; 4917; 5001; 5064; 5133; 5406; 5987
Bst2UI	CC!WGG	23	90; 283; 645; 754; 1006; 1072; 1168; 1363; 1567; 1654; 2230; 2374; 2389; 2518; 3648; 3703; 3720; 4499; 5078; 5181; 5871; 5884; 6005
BstV1I	GCAGCNNNNNNN!	13	770; 797; 863; 1023; 1056; 2264; 2706; 2900; 4185; 4227; 4748; 5201; 5701
BstV1I	!NNNNNNNNNNNGCTGC	16	752; 941; 1091; 1355; 1422; 1461; 1524; 1686; 1829; 2383; 3394; 4059; 4243; 4336; 5402; 5608
BstV2I	GAAGACNN!	1	2354
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	12	585; 609; 1022; 2037; 2593; 4283; 4529; 4921; 5280; 5292; 5378; 5389
BstYI	R!GATCY	12	585; 609; 1022; 2037; 2593; 4283; 4529; 4921; 5280; 5292; 5378; 5389
BstZI	C!GGCCG	3	703; 2756; 4018
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3541; 4331; 5832
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	2	1403; 3952



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bsu36I	CC!TNAGG	4	1903; 2312; 3592; 5224
BsuRI	GG!CC	36	84; 277; 686; 705; 901; 1033; 1055; 1171; 1724; 1810; 2204; 2447; 2482; 2516; 2539; 2561; 2671; 2713; 2758; 3078; 3220; 3875; 3881; 3890; 3933; 4020; 4194; 4585; 4612; 5121; 5178; 5211; 5556; 5990; 6008; 6019
BsuTUI	AT!CGAT	2	1403; 3952
BtgI	C!CRYGG	4	360; 2054; 3841; 4544
BtgZI	GCGATGNNNNNNNNNN!	2	3229; 4564
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 4383; 4727
BthCI	GCNG!C	53	686; 761; 768; 788; 812; 854; 870; 957; 1014; 1047; 1107; 1371; 1438; 1477; 1540; 1702; 1727; 1845; 2204; 2255; 2399; 2516; 2697; 2758; 2761; 2891; 3410; 3432; 3446; 3884; 4023; 4075; 4086; 4176; 4181; 4218; 4259; 4346; 4349; 4352; 4588; 4684; 4725; 4739; 4853; 5192; 5207; 5418; 5624; 5627; 5692; 5835; 5990
BtrI	CAC!GTC	1	1285
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2951
BtsCI	GGATGNN!	9	680; 1266; 1416; 1632; 1740; 3972; 4429; 4454; 4908
BtsCI	!CATCC	4	2137; 2225; 2282; 3798
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	1493; 1799; 4380; 4830
BveI	!NNNNNNNNNGCAGGT	2	1104; 3999
Cac8I	GCN!NGC	42	86; 279; 593; 699; 703; 763; 844; 856; 899; 1031; 1111; 1143; 1373; 1729; 2065; 2155; 2359; 3331; 3374; 3388; 3661; 3680; 3733; 3752; 4006; 4192; 4411; 4477; 4483; 4511; 4515; 4556; 4560; 4614; 4897; 5084; 5131; 5187; 5209; 5420; 5980; 6017
CaiI	CAGNNN!CTG	4	963; 1368; 5213; 5621
CciI	T!CATGA	2	3538; 5310
CciNI	GC!GGCCGC	1	2756
CdiI	CATC!G	6	352; 990; 4401; 4406; 4604; 4745
CdiI	C!GATG	6	1404; 2022; 2495; 2676; 3215; 4550
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	2	871; 5984
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3773; 3815
CelII	GC!TNAGC	0	
CfoI	GCG!C	34	597; 763; 765; 770; 827; 842; 1001; 1070; 1109; 1160; 1187; 1565; 2527; 2734; 3378; 3386; 3412; 3434; 3443; 3456; 3487; 4106; 4114; 4178; 4215; 4481; 4741; 4917; 5003; 5406; 5515; 5689; 5789; 5856
CfrI	Y!GGCCR	11	703; 899; 1031; 1169; 1722; 2711; 2756; 4018; 4192; 4583; 4610
Cfr9I	C!CCGGG	3	687; 804; 859
Cfr10I	R!CCGGY	7	701; 1109; 2043; 3329; 4431; 4612; 4895
Cfr13I	G!GNCC	19	83; 276; 647; 685; 1053; 1077; 1119; 1809; 2203; 2446; 2538; 2559; 2643; 3219; 4628; 5073; 5119; 5177; 5210
Cfr42I	CCGC!GG	0	
ChaI	GATC!	23	589; 613; 1026; 2041; 2571; 2597; 2773; 3953; 3957; 3976; 4287; 4365; 4446; 4455; 4533; 4909; 4925; 5284; 5296; 5374; 5382; 5393; 5468
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	1081; 2149; 3929; 5369; 5469; 5547
CjeI	!NNNNNNNNNACNNNNNNNTGG	10	64; 257; 1289; 1916; 1971; 3596; 3691; 4883; 5433; 5988
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNNNN!	10	98; 291; 1323; 1950; 2005; 3630; 3725; 4917; 5467; 6022
CjeI	!NNNNNNNNCCANNNNNNGT	6	1047; 2115; 3895; 5335; 5435; 5513
CjePI	CCANNNNNNTCNNNNNNNNNNNNNNNN!	3	1081; 5369; 5547
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 4883; 5482
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNNNN!	3	290; 4916; 5515
CjePI	!NNNNNNNNCCANNNNNNTC	3	1048; 5336; 5514
Clal	AT!CGAT	2	1403; 3952
CpoI	CG!GWCCG	1	4628
CseI	GACGCNNNNN!	5	526; 913; 1564; 4822; 4901
CseI	!NNNNNNNNNNNGCGTC	6	1134; 1262; 2619; 3445; 5340; 5918
CsiI	A!CCWGGT	2	643; 3701
CspI	CG!GWCCG	1	4628
Csp6I	G!TAC	13	218; 243; 298; 331; 382; 539; 1450; 1506; 1590; 2097; 2247; 2499; 4417
Csp45I	TT!CGAA	2	627; 4794

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspAI	A!CCGGT	1	2043
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	5	1778; 2099; 2690; 3392; 5001
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	27	301; 361; 636; 1182; 1393; 2055; 2082; 2088; 2100; 2178; 2244; 2324; 2528; 2535; 3539; 3679; 3751; 3842; 3983; 4328; 4514; 4545; 4571; 4927; 5311; 6031; 6082
CviJI	RG!CY	127	42; 84; 93; 277; 566; 618; 624; 686; 701; 705; 710; 716; 722; 752; 782; 788; 870; 901; 954; 963; 1033; 1038; 1047; 1055; 1104; 1125; 1141; 1171; 1231; 1368; 1375; 1422; 1435; 1474; 1537; 1699; 1724; 1765; 1810; 1842; 2067; 2094; 2157; 2204; 2233; 2240; 2318; 2384; 2396; 2440; 2447; 2474; 2482; 2516; 2539; 2547; 2561; 2671; 2707; 2713; 2758; 2781; 2891; 3058; 3078; 3220; 3301; 3315; 3329; 3610; 3651; 3723; 3846; 3875; 3881; 3890; 3898; 3921; 3933; 3939; 4020; 4037; 4045; 4072; 4097; 4181; 4190; 4194; 4218; 4256; 4332; 4349; 4368; 4431; 4475; 4485; 4502; 4585; 4612; 4616; 4653; 4676; 4692; 4872; 4899; 4960; 5082; 5121; 5178; 5185; 5192; 5211; 5222; 5473; 5502; 5545; 5556; 5621; 5700; 5725; 5730; 5776; 5866; 5964; 5990; 6008; 6019
CviKI-1	RG!CY	127	42; 84; 93; 277; 566; 618; 624; 686; 701; 705; 710; 716; 722; 752; 782; 788; 870; 901; 954; 963; 1033; 1038; 1047; 1055; 1104; 1125; 1141; 1171; 1231; 1368; 1375; 1422; 1435; 1474; 1537; 1699; 1724; 1765; 1810; 1842; 2067; 2094; 2157; 2204; 2233; 2240; 2318; 2384; 2396; 2440; 2447; 2474; 2482; 2516; 2539; 2547; 2561; 2671; 2707; 2713; 2758; 2781; 2891; 3058; 3078; 3220; 3301; 3315; 3329; 3610; 3651; 3723; 3846; 3875; 3881; 3890; 3898; 3921; 3933; 3939; 4020; 4037; 4045; 4072; 4097; 4181; 4190; 4194; 4218; 4256; 4332; 4349; 4368; 4431; 4475; 4485; 4502; 4585; 4612; 4616; 4653; 4676; 4692; 4872; 4899; 4960; 5082; 5121; 5178; 5185; 5192; 5211; 5222; 5473; 5502; 5545; 5556; 5621; 5700; 5725; 5730; 5776; 5866; 5964; 5990; 6008; 6019
CviQI	G!TAC	13	218; 243; 298; 331; 382; 539; 1450; 1506; 1590; 2097; 2247; 2499; 4417
DdeI	C!TNAG	13	606; 1376; 1532; 1586; 1903; 2012; 2312; 3592; 3894; 4775; 5224; 5347; 5756
DinI	GGC!GCC	1	4113
DpnI	GA!TC	23	587; 611; 1024; 2039; 2569; 2595; 2771; 3951; 3955; 3974; 4285; 4363; 4444; 4453; 4531; 4907; 4923; 5282; 5294; 5372; 5380; 5391; 5466
DpnII	!GATC	23	585; 609; 1022; 2037; 2567; 2593; 2769; 3949; 3953; 3972; 4283; 4361; 4442; 4451; 4529; 4905; 4921; 5280; 5292; 5370; 5378; 5389; 5464
DraI	TTT!AAA	3	2814; 5256; 5275
DraII	RG!GNCCY	2	1077; 5210
DraIII	CACNNN!GTG	2	2703; 3228
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	5	266; 950; 1505; 2294; 5592
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	3183; 4139; 5928
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	1	1272
DseDI	GACNNN!NNGTC	3	3183; 4139; 5928
EaeI	Y!GGCCR	11	703; 899; 1031; 1169; 1722; 2711; 2756; 4018; 4192; 4583; 4610
EagI	C!GGCCG	3	703; 2756; 4018
Eam1104I	CTCTTCN!	1	1883
Eam1104I	!NNNNGAAGAG	6	1316; 1346; 1673; 3579; 4456; 4666
Eam1105I	GACNNN!NNGTC	1	1272
EarI	CTCTTCN!	1	1883
EarI	!NNNNGAAGAG	6	1316; 1346; 1673; 3579; 4456; 4666
EciI	GGCGGANNNNNNNNNNNN!	4	3612; 4641; 5828; 5974
EciI	!NNNNNNNNNTCCGCC	4	496; 3783; 3804; 3825
Ecl136II	GAG!CTC	3	618; 710; 1038
EclXI	C!GGCCG	3	703; 2756; 4018

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco24I	GRGCY!C	6	620; 712; 1040; 3303; 4477; 5187
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	3	2575; 2674; 5101
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	6	647; 1077; 1119; 2643; 4628; 5073
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	3	703; 2756; 4018
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	2563; 4258; 4690
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	1201; 5488
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	4	1903; 2312; 3592; 5224
Eco88I	C!YCGRG	5	613; 687; 804; 859; 1039
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	7	360; 1056; 2054; 3841; 3934; 4544; 4949
Eco147I	AGG!CCT	2	2482; 3933
EcoHI	!CCSGG	13	686; 687; 803; 804; 858; 859; 1190; 2277; 2625; 4114; 4274; 4887; 5651
EcoICRI	GAG!CTC	3	618; 710; 1038
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	5	1027; 2563; 4258; 4690; 4952
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	696; 1201; 2371; 4895; 5488
EcoNI	CCTNN!NNNAGG	6	669; 1084; 1171; 1489; 1531; 1564
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	1077; 5210
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	23	88; 281; 643; 752; 1004; 1070; 1166; 1361; 1565; 1652; 2228; 2372; 2387; 2516; 3646; 3701; 3718; 4497; 5076; 5179; 5869; 5882; 6003
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	7	360; 1056; 2054; 3841; 3934; 4544; 4949
EcoT22I	ATGCA!T	3	3684; 3756; 6087
EcoT38I	GRGCY!C	6	620; 712; 1040; 3303; 4477; 5187
Eco53kI	GAG!CTC	3	618; 710; 1038
EgeI	GGC!GCC	1	4113
EheI	GGC!GCC	1	4113
ErhI	C!CWWGG	7	360; 1056; 2054; 3841; 3934; 4544; 4949
EsaBC3I	TC!IGA	20	615; 628; 990; 1041; 1149; 1404; 2196; 2223; 2691; 3262; 3953; 4226; 4382; 4406; 4442; 4604; 4795; 4840; 5095; 5933
Esp3I	CGTCTCN!	1	1280
Esp3I	!NNNNNGAGACG	1	2485
FaeI	CATG!	27	304; 364; 639; 1185; 1396; 2058; 2085; 2091; 2103; 2181; 2247; 2327; 2531; 2538; 3542; 3682; 3754; 3845; 3986; 4331; 4517; 4548; 4574; 4930; 5314; 6034; 6085
Fail	YA!TR	68	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 637; 818; 1183; 1394; 1463; 1750; 2056; 2083; 2089; 2101; 2179; 2245; 2325; 2343; 2529; 2536; 2589; 2774; 2784; 2850; 2895; 3100; 3528; 3540; 3671; 3680; 3743; 3752; 3776; 3843; 3867; 3984; 4048; 4329; 4354; 4515; 4546; 4572; 4644; 4860; 4928; 5006; 5058; 5219; 5236; 5238; 5240; 5312; 5590; 5779; 5895; 5968; 6032; 6083
FalI	AAGNNNNNCTNNNNNNNNNNNN!	3	1017; 2322; 4452
FalI	!NNNNNNNNAAGNNNNNCTT	3	985; 2290; 4420
FaqI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1090; 4263; 4795; 4904
FaqI	!NNNNNNNNNNNNNGTCCC	7	786; 1593; 1635; 3628; 3700; 3764; 5059
FatI	!CATG	27	300; 360; 635; 1181; 1392; 2054; 2081; 2087; 2099; 2177; 2243; 2323; 2527; 2534; 3538; 3678; 3750; 3841; 3982; 4327; 4513; 4544; 4570; 4926; 5310; 6030; 6081
FauI	CCCGCNNNN!	13	93; 119; 286; 748; 940; 1150; 2511; 2613; 3434; 3789; 3810; 5006; 5138
FauI	!NNNNNNNGCGGG	7	1091; 2548; 3365; 4235; 4772; 4910; 5057
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	2633
FmuI	GGNC!C	19	86; 279; 650; 688; 1056; 1080; 1122; 1812; 2206; 2449; 2541; 2562; 2646; 3222; 4631; 5076; 5122; 5180; 5213

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	53	684; 759; 766; 786; 810; 852; 868; 955; 1012; 1045; 1105; 1369; 1436; 1475; 1538; 1700; 1725; 1843; 2202; 2253; 2397; 2514; 2695; 2756; 2759; 2889; 3408; 3430; 3444; 3882; 4021; 4073; 4084; 4174; 4179; 4216; 4257; 4344; 4347; 4350; 4586; 4682; 4723; 4737; 4851; 5190; 5205; 5416; 5622; 5625; 5690; 5833; 5988
FokI	GGATGNNNNNNNNN!	9	687; 1273; 1423; 1639; 1747; 3979; 4436; 4461; 4915
FokI	!NNNNNNNNNNNNNNCATCC	4	2124; 2212; 2269; 3785
FriOI	GRGCY!C	6	620; 712; 1040; 3303; 4477; 5187
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4214
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1982; 2767; 2961; 3379; 3935; 4950; 5284; 5537
FspEI	CCNNNNNNNNNNNN!	211	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 647; 663; 678; 700; 715; 730; 750; 766; 784; 802; 816; 834; 849; 872; 886; 915; 930; 945; 985; 1018; 1039; 1069; 1084; 1123; 1143; 1180; 1201; 1245; 1306; 1344; 1360; 1375; 1411; 1431; 1452; 1491; 1527; 1554; 1572; 1596; 1623; 1644; 1665; 1704; 1723; 1738; 1786; 1804; 1824; 1842; 1889; 1905; 1942; 1956; 2041; 2057; 2099; 2124; 2154; 2171; 2185; 2218; 2232; 2250; 2274; 2288; 2319; 2352; 2379; 2394; 2413; 2449; 2496; 2515; 2530; 2553; 2575; 2590; 2610; 2629; 2659; 2685; 2727; 2772; 2795; 2834; 2848; 2989; 3084; 3108; 3131; 3154; 3172; 3194; 3215; 3234; 3253; 3282; 3303; 3317; 3343; 3431; 3457; 3506; 3547; 3565; 3604; 3620; 3658; 3715; 3730; 3787; 3807; 3821; 3838; 3852; 3889; 3904; 3947; 4030; 4097; 4128; 4148; 4163; 4208; 4222; 4288; 4302; 4321; 4337; 4378; 4398; 4445; 4495; 4511; 4531; 4556; 4576; 4599; 4626; 4644; 4670; 4710; 4736; 4760; 4816; 4830; 4858; 4901; 4922; 4957; 5001; 5089; 5113; 5135; 5155; 5171; 5192; 5206; 5225; 5309; 5329; 5357; 5372; 5406; 5448; 5475; 5490; 5535; 5559; 5573; 5595; 5621; 5641; 5665; 5691; 5739; 5758; 5777; 5803; 5838; 5883; 5913; 5927; 5978; 5992; 6017; 6033; 6054; 6083
FspEI	!NNNNNNNNNNNNNNNGG	173	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 630; 657; 687; 739; 790; 831; 852; 871; 931; 979; 1015; 1036; 1057; 1075; 1095; 1135; 1153; 1176; 1210; 1243; 1264; 1291; 1339; 1357; 1393; 1417; 1456; 1474; 1519; 1552; 1578; 1609; 1639; 1660; 1706; 1738; 1792; 1821; 1840; 1890; 1918; 1938; 1957; 1978; 2018; 2041; 2059; 2086; 2128; 2149; 2173; 2215; 2234; 2263; 2299; 2336; 2359; 2378; 2401; 2429; 2456; 2495; 2521; 2540; 2612; 2638; 2686; 2711; 2729; 2783; 2883; 2952; 2982; 3060; 3109; 3131; 3159; 3195; 3240; 3269; 3305; 3324; 3352; 3372; 3435; 3458; 3566; 3598; 3616; 3645; 3688; 3717; 3828; 3857; 3900; 3921; 3949; 3982; 4002; 4027; 4054; 4079; 4101; 4129; 4155; 4176; 4227; 4248; 4266; 4314; 4350; 4406; 4431; 4455; 4484; 4507; 4531; 4557; 4579; 4598; 4623; 4663; 4699; 4764; 4849; 4873; 4902; 4936; 4957; 4977; 5022; 5049; 5068; 5101; 5153; 5184; 5211; 5263; 5361; 5432; 5477; 5538; 5603; 5637; 5663; 5681; 5717; 5787; 5810; 5832; 5856; 5889; 5937; 5972; 5990; 6047
Fsp4HI	GC!NGC	53	684; 759; 766; 786; 810; 852; 868; 955; 1012; 1045; 1105; 1369; 1436; 1475; 1538; 1700; 1725; 1843; 2202; 2253; 2397; 2514; 2695; 2756; 2759; 2889; 3408; 3430; 3444; 3882; 4021; 4073; 4084; 4174; 4179; 4216; 4257; 4344; 4347; 4350; 4586; 4682; 4723; 4737; 4851; 5190; 5205; 5416; 5622; 5625; 5690; 5833; 5988
GdiII	C!GGCCR	3	703; 2756; 4018
GdiII	Y!GGCCG	9	703; 899; 1031; 1169; 1722; 2756; 4018; 4583; 4610
GlaI	GC!GC	34	596; 762; 764; 769; 826; 841; 1000; 1069; 1108; 1159; 1186; 1564; 2526; 2733; 3377; 3385; 3411; 3433; 3442; 3455; 3486; 4105; 4113; 4177; 4214; 4480; 4740; 4916; 5002; 5405; 5514; 5688; 5788; 5855
GluI	GC!NGC	53	684; 759; 766; 786; 810; 852; 868; 955; 1012; 1045; 1105; 1369; 1436; 1475; 1538; 1700; 1725; 1843; 2202; 2253; 2397; 2514; 2695; 2756; 2759; 2889; 3408; 3430; 3444; 3882; 4021; 4073; 4084; 4174; 4179; 4216; 4257; 4344; 4347; 4350; 4586; 4682; 4723; 4737; 4851; 5190; 5205; 5416; 5622; 5625; 5690; 5833; 5988
GsaI	CCCAG!C	5	776; 2440; 3659; 3731; 5730
GsaI	GCTGG!G	2	2478; 4620

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	1027; 4952
GsuI	!NNNNNNNNNNNNNNCTCCAG	3	696; 2371; 4895
HaeI	WGG!CCW	7	2482; 2713; 3933; 4194; 5556; 6008; 6019
HaeII	RGCGC!Y	6	598; 2735; 3379; 3387; 4115; 5790
HaeIII	GG!CC	36	84; 277; 686; 705; 901; 1033; 1055; 1171; 1724; 1810; 2204; 2447; 2482; 2516; 2539; 2561; 2671; 2713; 2758; 3078; 3220; 3875; 3881; 3890; 3933; 4020; 4194; 4585; 4612; 5121; 5178; 5211; 5556; 5990; 6008; 6019
HaeIV	GAYNNNNNRCTNNNNNNNNNNNN!	4	1291; 2015; 2787; 4308
HaeIV	!NNNNNNNNNGAYNNNNNRCT	4	1257; 1981; 2753; 4274
HaeIV	GAYNNNNNRCTNNNNNNNNNNNN!	4	1290; 2014; 2786; 4307
HaeIV	!NNNNNNNNNGAYNNNNNRCT	4	1259; 1983; 2755; 4276
HapII	C!CGG	29	601; 688; 702; 717; 805; 860; 1110; 1191; 1545; 1593; 2044; 2278; 2627; 3330; 4017; 4094; 4116; 4144; 4275; 4365; 4432; 4613; 4888; 4896; 4988; 5462; 5652; 5678; 5825
HgaI	GACGCNNNNN!	5	526; 913; 1564; 4822; 4901
HgaI	!NNNNNNNNNNNGCGTC	6	1134; 1262; 2619; 3445; 5340; 5918
HhaI	GCG!C	34	597; 763; 765; 770; 827; 842; 1001; 1070; 1109; 1160; 1187; 1565; 2527; 2734; 3378; 3386; 3412; 3434; 3443; 3456; 3487; 4106; 4114; 4178; 4215; 4481; 4741; 4917; 5003; 5406; 5515; 5689; 5789; 5856
HinI	GR!CGYC	10	122; 175; 258; 444; 905; 1556; 2630; 4112; 4814; 4893
Hin1II	CATG!	27	304; 364; 639; 1185; 1396; 2058; 2085; 2091; 2103; 2181; 2247; 2327; 2531; 2538; 3542; 3682; 3754; 3845; 3986; 4331; 4517; 4548; 4574; 4930; 5314; 6034; 6085
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	5	1290; 1962; 2014; 2786; 4307
Hin4I	!NNNNNNNNNGABNNNNNRCT	5	1258; 1982; 2754; 4275; 4305
Hin4I	GABNNNNNRCTNNNNNNNNNNNN!	5	1290; 2014; 2786; 4307; 4337
Hin4I	!NNNNNNNNNGAYNNNNNVTC	5	1258; 1930; 1982; 2754; 4275
Hin6I	G!CGC	34	595; 761; 763; 768; 825; 840; 999; 1068; 1107; 1158; 1185; 1563; 2525; 2732; 3376; 3384; 3410; 3432; 3441; 3454; 3485; 4104; 4112; 4176; 4213; 4479; 4739; 4915; 5001; 5404; 5513; 5687; 5787; 5854
HinP1I	G!CGC	34	595; 761; 763; 768; 825; 840; 999; 1068; 1107; 1158; 1185; 1563; 2525; 2732; 3376; 3384; 3410; 3432; 3441; 3454; 3485; 4104; 4112; 4176; 4213; 4479; 4739; 4915; 5001; 5404; 5513; 5687; 5787; 5854
HincII	GTY!RAC	2	1266; 2875
HindII	GTY!RAC	2	1266; 2875
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	23	410; 604; 880; 1309; 1380; 1579; 1648; 1740; 1921; 2183; 2333; 2660; 2763; 3155; 3177; 3587; 4597; 4731; 4783; 4841; 4878; 5660; 6056
HpaI	GTT!AAC	1	2875
HpaII	C!CGG	29	601; 688; 702; 717; 805; 860; 1110; 1191; 1545; 1593; 2044; 2278; 2627; 3330; 4017; 4094; 4116; 4144; 4275; 4365; 4432; 4613; 4888; 4896; 4988; 5462; 5652; 5678; 5825
HphI	GGTGANNNNNNNN!	6	376; 2070; 2439; 2749; 5183; 5299
HphI	!NNNNNNNTCACC	5	1605; 1762; 2328; 3229; 4290
Hpy8I	GTN!NAC	19	201; 539; 577; 641; 737; 888; 1119; 1266; 1583; 2115; 2135; 2430; 2634; 2643; 2875; 3159; 3176; 3231; 5718
Hpy99I	CGWCG!	12	907; 1150; 2197; 2677; 2692; 4202; 4230; 4524; 4539; 4816; 5201; 5934
Hpy166II	GTN!NAC	19	201; 539; 577; 641; 737; 888; 1119; 1266; 1583; 2115; 2135; 2430; 2634; 2643; 2875; 3159; 3176; 3231; 5718
Hpy188I	TCN!GA	19	585; 609; 1220; 1255; 1379; 1533; 1745; 1964; 2142; 3286; 3895; 4079; 4423; 4776; 4877; 5356; 5490; 5843; 5921
Hpy188III	TC!NNGA	28	613; 924; 1288; 1384; 1777; 1918; 2020; 2619; 2767; 3539; 3591; 3904; 3957; 4130; 4446; 4455; 4538; 4594; 4638; 4728; 4761; 4830; 5311; 5385; 5468; 5566; 5664; 5798
HpyAV	CCTCNNNNNN!	7	1783; 2223; 2271; 2316; 4757; 4864; 5543
HpyAV	!NNNNNGAAGG	13	939; 1746; 1843; 2026; 2143; 2515; 3345; 4240; 4969; 4985; 5168; 5485; 5795
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 1974; 2112; 3203; 4492; 4608; 4716; 5039; 5530; 6000; 6071
HpyCH4IV	A!CGT	22	122; 134; 175; 258; 339; 444; 725; 733; 1284; 1448; 1452; 2411; 2639; 2687; 3172; 3184; 3227; 3337; 4228; 4415; 5196; 5329

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HpyCH4V	TG!CA	28	876; 957; 1203; 1245; 1317; 1371; 1488; 1605; 1731; 2135; 2457; 2573; 2861; 2888; 2956; 3673; 3682; 3745; 3754; 3869; 3945; 4004; 4163; 4338; 4352; 5422; 5718; 6085
HpyF3I	C!TNAG	13	606; 1376; 1532; 1586; 1903; 2012; 2312; 3592; 3894; 4775; 5224; 5347; 5756
HpyF10VI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 689; 707; 749; 767; 782; 848; 864; 960; 1035; 1067; 1104; 1279; 1696; 1859; 2091; 2522; 3339; 3369; 3396; 3438; 3679; 3751; 3802; 3881; 4103; 4187; 4210; 4349; 4472; 4555; 4822; 5009; 5213; 5412; 5984
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 905; 1556; 2630; 4112; 4814; 4893
Hsp92II	CATG!	27	304; 364; 639; 1185; 1396; 2058; 2085; 2091; 2103; 2181; 2247; 2327; 2531; 2538; 3542; 3682; 3754; 3845; 3986; 4331; 4517; 4548; 4574; 4930; 5314; 6034; 6085
HspAI	G!CGC	34	595; 761; 763; 768; 825; 840; 999; 1068; 1107; 1158; 1185; 1563; 2525; 2732; 3376; 3384; 3410; 3432; 3441; 3454; 3485; 4104; 4112; 4176; 4213; 4479; 4739; 4915; 5001; 5404; 5513; 5687; 5787; 5854
KasI	G!GCGCC	1	4111
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	2875
Kzo9I	!GATC	23	585; 609; 1022; 2037; 2567; 2593; 2769; 3949; 3953; 3972; 4283; 4361; 4442; 4451; 4529; 4905; 4921; 5280; 5292; 5370; 5378; 5389; 5464
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	4456; 4666
LpnI	RGC!GCGY	6	596; 2733; 3377; 3385; 4113; 5788
LpnPI	CCDGNNNNNNNNNN!	88	102; 295; 614; 657; 701; 715; 730; 766; 786; 818; 856; 873; 1018; 1039; 1084; 1123; 1180; 1204; 1255; 1375; 1436; 1453; 1498; 1558; 1573; 1606; 1629; 1666; 1741; 1804; 1909; 2057; 2185; 2242; 2291; 2324; 2386; 2401; 2450; 2530; 2554; 2578; 2640; 2727; 2849; 3154; 3343; 3566; 3604; 3620; 3660; 3715; 3732; 3832; 3917; 4030; 4107; 4129; 4152; 4288; 4302; 4321; 4378; 4445; 4495; 4511; 4568; 4626; 4835; 4901; 4925; 5001; 5090; 5193; 5226; 5457; 5475; 5621; 5641; 5665; 5691; 5740; 5838; 5883; 5913; 5992; 6017; 6054
LpnPI	!NNNNNNNNNNNNNNCHGG	82	75; 268; 552; 586; 630; 657; 687; 739; 790; 845; 883; 943; 991; 1015; 1057; 1095; 1153; 1176; 1243; 1264; 1348; 1369; 1474; 1530; 1552; 1578; 1639; 1717; 1821; 1848; 1903; 1978; 2029; 2215; 2263; 2359; 2460; 2503; 2612; 2638; 2711; 3195; 3315; 3372; 3435; 3633; 3645; 3705; 3717; 3949; 3994; 4037; 4079; 4101; 4129; 4176; 4238; 4260; 4350; 4417; 4440; 4484; 4579; 4598; 4623; 4772; 4873; 4916; 4973; 5063; 5166; 5193; 5211; 5447; 5484; 5637; 5663; 5803; 5821; 5856; 5937; 5990
Lsp1109I	GCAGCNNNNNNN!	13	770; 797; 863; 1023; 1056; 2264; 2706; 2900; 4185; 4227; 4748; 5201; 5701
Lsp1109I	!NNNNNNNNNNNGCTGC	16	752; 941; 1091; 1355; 1422; 1461; 1524; 1686; 1829; 2383; 3394; 4059; 4243; 4336; 5402; 5608
LweI	GCATCNNNNN!	8	2025; 2291; 2928; 3691; 3763; 4411; 4475; 4750
LweI	!NNNNNNNNNGATGC	11	357; 1085; 1202; 1617; 1655; 2444; 2612; 4070; 4325; 4541; 5933
MabI	A!CCWGGT	2	643; 3701
MaeI	C!TAG	9	592; 1982; 2767; 2961; 3379; 3935; 4950; 5284; 5537
MaeII	A!CGT	22	122; 134; 175; 258; 339; 444; 725; 733; 1284; 1448; 1452; 2411; 2639; 2687; 3172; 3184; 3227; 3337; 4228; 4415; 5196; 5329
MaeIII	!GTNAC	17	61; 148; 497; 726; 1444; 1768; 2334; 2530; 2900; 3401; 3413; 4232; 4538; 5228; 5494; 5610; 5673
MalI	GA!TC	23	587; 611; 1024; 2039; 2569; 2595; 2771; 3951; 3955; 3974; 4285; 4363; 4444; 4453; 4531; 4907; 4923; 5282; 5294; 5372; 5380; 5391; 5466
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3536; 4725
MbiI	GAG!CGG	3	2755; 3372; 4779

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MboI	!GATC	23	585; 609; 1022; 2037; 2567; 2593; 2769; 3949; 3953; 3972; 4283; 4361; 4442; 4451; 4529; 4905; 4921; 5280; 5292; 5370; 5378; 5389; 5464
MboII	GAAGANNNNNNN!	12	1333; 1350; 1363; 1510; 1690; 2359; 2472; 3368; 3596; 4473; 4683; 5302
MboII	!NNNNNNNTCTTC	5	1870; 4763; 4930; 5130; 5373
McaTI	GCGC!GC	1	764
MfeI	C!AATTG	1	2862
MflI	R!GATCY	12	585; 609; 1022; 2037; 2593; 4283; 4529; 4921; 5280; 5292; 5378; 5389
MhII	GDGCH!C	16	620; 694; 712; 860; 1040; 2110; 2137; 2170; 3303; 4058; 4151; 4225; 4415; 4477; 5187; 5720
MIsI	TGG!CCA	2	2713; 4194
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	2713; 4194
MlyI	GAGTCNNNNN!	5	1588; 1657; 2342; 3164; 3596
MlyI	!NNNNNGACTC	7	404; 598; 874; 2757; 3171; 4777; 5654
Mly113I	GG!CGCC	1	4112
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	3205
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5637; 5821
MnII	CCTCNNNNNNN!	24	666; 799; 840; 1090; 1198; 1438; 1537; 1621; 1886; 1902; 1940; 2216; 2285; 2395; 2410; 2493; 2626; 2831; 3895; 4713; 4919; 5233; 5603; 5927
MnII	!NNNNNGAGG	34	541; 1080; 1143; 1167; 1200; 1218; 1347; 1485; 1527; 1749; 1848; 1898; 2097; 2136; 2157; 2190; 2307; 2416; 2472; 2661; 2694; 2737; 2791; 3256; 3587; 3865; 3908; 3923; 3963; 4027; 4163; 4520; 4950; 5853
Mph1103I	ATGCA!T	3	3684; 3756; 6087
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	5	701; 1109; 3329; 4612; 4895
MroXI	GAANN!NN TTC	0	
MscI	TGG!CCA	2	2713; 4194
MseI	T!TAA	20	7; 1634; 1802; 1967; 2072; 2297; 2813; 2874; 2995; 3016; 3027; 3039; 3050; 3067; 3165; 3436; 5255; 5269; 5274; 5326
MslI	CAYNN!NNRTG	6	365; 1775; 2021; 2056; 2086; 4549
MspI	C!CGG	29	601; 688; 702; 717; 805; 860; 1110; 1191; 1545; 1593; 2044; 2278; 2627; 3330; 4017; 4094; 4116; 4144; 4275; 4365; 4432; 4613; 4888; 4896; 4988; 5462; 5652; 5678; 5825
Msp20I	TGG!CCA	2	2713; 4194
MspA1I	CMG!CKG	5	2506; 3610; 4218; 5447; 5692
MspCI	C!TTAAG	1	2994

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	316	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 627; 640; 656; 669; 682; 699; 714; 729; 752; 765; 784; 810; 825; 849; 867; 885; 906; 929; 944; 970; 992; 1005; 1018; 1038; 1051; 1068; 1083; 1098; 1111; 1126; 1142; 1156; 1171; 1184; 1203; 1216; 1231; 1244; 1266; 1291; 1306; 1330; 1360; 1374; 1388; 1405; 1430; 1443; 1456; 1490; 1508; 1521; 1535; 1553; 1572; 1588; 1605; 1624; 1645; 1665; 1681; 1715; 1740; 1756; 1778; 1797; 1825; 1844; 1858; 1875; 1894; 1908; 1925; 1945; 1959; 1975; 1994; 2016; 2032; 2056; 2076; 2094; 2112; 2142; 2160; 2175; 2190; 2208; 2241; 2256; 2280; 2299; 2323; 2336; 2352; 2370; 2384; 2400; 2413; 2427; 2448; 2461; 2482; 2501; 2515; 2529; 2547; 2560; 2577; 2590; 2604; 2617; 2631; 2652; 2665; 2684; 2703; 2726; 2747; 2772; 2785; 2800; 2819; 2836; 2849; 2890; 2904; 2917; 2935; 2973; 2988; 3006; 3047; 3071; 3091; 3109; 3130; 3153; 3185; 3200; 3222; 3240; 3253; 3274; 3291; 3304; 3317; 3333; 3346; 3376; 3391; 3416; 3434; 3447; 3462; 3486; 3500; 3524; 3549; 3565; 3603; 3619; 3658; 3672; 3686; 3714; 3730; 3744; 3758; 3787; 3800; 3821; 3830; 3852; 3882; 3898; 3916; 3946; 3969; 3993; 4017; 4036; 4064; 4090; 4106; 4119; 4142; 4156; 4176; 4189; 4203; 4222; 4236; 4249; 4265; 4280; 4293; 4309; 4324; 4340; 4365; 4384; 4400; 4413; 4426; 4444; 4458; 4472; 4488; 4510; 4526; 4545; 4567; 4583; 4606; 4625; 4639; 4655; 4669; 4689; 4705; 4718; 4740; 4773; 4787; 4807; 4820; 4834; 4888; 4901; 4924; 4937; 4956; 4973; 5000; 5036; 5069; 5088; 5113; 5134; 5161; 5174; 5191; 5205; 5220; 5236; 5296; 5321; 5337; 5359; 5372; 5386; 5417; 5431; 5456; 5474; 5489; 5502; 5521; 5534; 5549; 5578; 5597; 5615; 5640; 5655; 5674; 5690; 5709; 5727; 5743; 5757; 5776; 5803; 5826; 5848; 5867; 5882; 5895; 5912; 5932; 5959; 5972; 5991; 6016; 6039; 6053; 6066; 6083
MspJI	!NNNNNNNNNNNNYNG	257	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 593; 612; 630; 658; 675; 693; 710; 739; 759; 779; 799; 818; 841; 859; 880; 904; 928; 962; 979; 1006; 1025; 1043; 1070; 1092; 1128; 1145; 1168; 1190; 1228; 1258; 1280; 1300; 1321; 1348; 1369; 1393; 1417; 1437; 1456; 1475; 1501; 1519; 1546; 1573; 1602; 1633; 1653; 1673; 1697; 1714; 1735; 1752; 1772; 1789; 1807; 1832; 1849; 1882; 1903; 1948; 1968; 1999; 2030; 2050; 2068; 2086; 2116; 2140; 2158; 2182; 2201; 2223; 2254; 2273; 2297; 2330; 2359; 2401; 2423; 2456; 2476; 2503; 2521; 2538; 2556; 2584; 2605; 2626; 2650; 2672; 2695; 2712; 2738; 2764; 2793; 2822; 2864; 2947; 2982; 3009; 3032; 3061; 3105; 3127; 3159; 3195; 3212; 3233; 3270; 3290; 3307; 3324; 3359; 3377; 3395; 3412; 3436; 3458; 3485; 3513; 3539; 3577; 3598; 3615; 3633; 3656; 3677; 3705; 3728; 3749; 3767; 3788; 3805; 3828; 3852; 3872; 3890; 3912; 3943; 3965; 3991; 4010; 4027; 4055; 4074; 4093; 4111; 4129; 4150; 4172; 4196; 4229; 4249; 4267; 4288; 4314; 4341; 4358; 4375; 4392; 4418; 4440; 4462; 4480; 4500; 4519; 4541; 4579; 4599; 4623; 4643; 4663; 4690; 4714; 4747; 4766; 4794; 4816; 4845; 4873; 4898; 4917; 4936; 4957; 4974; 4991; 5022; 5049; 5069; 5092; 5112; 5149; 5166; 5185; 5211; 5231; 5270; 5297; 5316; 5334; 5371; 5389; 5430; 5448; 5474; 5491; 5523; 5552; 5580; 5601; 5624; 5643; 5664; 5682; 5699; 5717; 5743; 5764; 5784; 5804; 5822; 5843; 5869; 5886; 5905; 5924; 5953; 5972; 5990; 6009; 6027; 6045; 6068
MspR9I	CC!NGG	36	90; 283; 645; 688; 689; 754; 805; 806; 860; 861; 1006; 1072; 1168; 1192; 1363; 1567; 1654; 2230; 2279; 2374; 2389; 2518; 2627; 3648; 3703; 3720; 4116; 4276; 4499; 4889; 5078; 5181; 5653; 5871; 5884; 6005
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2862
MvaI	CC!WGG	23	90; 283; 645; 754; 1006; 1072; 1168; 1363; 1567; 1654; 2230; 2374; 2389; 2518; 3648; 3703; 3720; 4499; 5078; 5181; 5871; 5884; 6005
Mva1269I	GAATGCN!	1	2863
Mva1269I	G!CATTC	1	2956
MvnI	CG!CG	21	60; 697; 763; 825; 1068; 1145; 1160; 2761; 3036; 3412; 3432; 3456; 3487; 4178; 4479; 4917; 5001; 5064; 5133; 5406; 5987
MvrI	CGAT!CG	0	



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MwoI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 689; 707; 749; 767; 782; 848; 864; 960; 1035; 1067; 1104; 1279; 1696; 1859; 2091; 2522; 3339; 3369; 3396; 3438; 3679; 3751; 3802; 3881; 4103; 4187; 4210; 4349; 4472; 4555; 4822; 5009; 5213; 5412; 5984
NaeI	GCC!GGC	5	703; 1111; 3331; 4614; 4897
NarI	GG!CGCC	1	4112
NciI	CC!SGG	13	688; 689; 805; 806; 860; 861; 1192; 2279; 2627; 4116; 4276; 4889; 5653
NcoI	C!CATGG	4	360; 2054; 3841; 4544
NdeI	CA!TATG	1	234
NdeII	!GATC	23	585; 609; 1022; 2037; 2567; 2593; 2769; 3949; 3953; 3972; 4283; 4361; 4442; 4451; 4529; 4905; 4921; 5280; 5292; 5370; 5378; 5389; 5464
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	3	280; 1548; 1979
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	2174
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	2210
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	3	244; 1512; 1943
NgoMIV	G!CCGGC	5	701; 1109; 3329; 4612; 4895
NheI	G!CTAGC	1	591
NlaIII	CATG!	27	304; 364; 639; 1185; 1396; 2058; 2085; 2091; 2103; 2181; 2247; 2327; 2531; 2538; 3542; 3682; 3754; 3845; 3986; 4331; 4517; 4548; 4574; 4930; 5314; 6034; 6085
NlaIV	GGN!NCC	22	467; 693; 871; 1078; 1641; 2039; 2109; 2169; 2560; 3267; 3288; 3300; 3491; 3652; 3724; 4113; 4148; 4996; 5075; 5120; 5963; 6002
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	2041; 2944; 3259; 4851
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 2434; 2720; 5923
Nli3877I	CYCGR!G	5	617; 691; 808; 863; 1043
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	5	731; 1059; 1197; 3901; 4337
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	2450; 3866
NmeDI	RCCGGYNNNNNNN!	7	713; 1121; 2055; 3341; 4443; 4624; 4907
NmeDI	!NNNNNNNNNNNNRCCGGY	7	688; 1096; 2030; 3316; 4418; 4599; 4882
NmuCI	!GTSAC	8	726; 1444; 1768; 2334; 2530; 3401; 4232; 4538
NotI	GC!GGCCGC	1	2756
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4214
NsiI	ATGCA!T	3	3684; 3756; 6087
NspI	RCATG!Y	7	1396; 2085; 2531; 3682; 3754; 4517; 6034
NspV	TT!CGAA	2	627; 4794
OliI	CACNN!NNGTG	2	1775; 2056
PabI	GTA!C	13	220; 245; 300; 333; 384; 541; 1452; 1508; 1592; 2099; 2249; 2501; 4419
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3682; 3754; 4517
PaeR7I	C!TCGAG	2	613; 1039
PagI	T!CATGA	2	3538; 5310
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	5077; 5180
PauI	G!CGCGC	1	761
PceI	AGG!CCT	2	2482; 3933
PciI	A!CATGT	1	6030
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	4456; 4666
PcsI	WCGNNNN!NNNCGW	9	1665; 1773; 2696; 4406; 4483; 4726; 4800; 5193; 5711
PctI	GAATGCN!	1	2863
PctI	G!CATTC	1	2956
PdiI	GCC!GGC	5	703; 1111; 3331; 4614; 4897
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	11	1309; 1380; 1740; 1921; 2183; 2660; 4597; 4731; 4841; 4878; 6056
Pfl23II	C!GTACG	1	1449
PfIFI	GACN!NNGTC	2	732; 4230
PfIMI	CCANNNN!NTGG	1	2652
PfoI	T!CCNGGA	5	1004; 1190; 1361; 2387; 4887

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PhoI	GG!CC	36	84; 277; 686; 705; 901; 1033; 1055; 1171; 1724; 1810; 2204; 2447; 2482; 2516; 2539; 2561; 2671; 2713; 2758; 3078; 3220; 3875; 3881; 3890; 3933; 4020; 4194; 4585; 4612; 5121; 5178; 5211; 5556; 5990; 6008; 6019
PinAI	A!CCGGT	1	2043
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	4493
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	4058; 4313
PleI	GAGTCNNNN!	5	1587; 1656; 2341; 3163; 3595
PleI	!NNNNNGACTC	7	404; 598; 874; 2757; 3171; 4777; 5654
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	3194
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	5324
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	5356
PpiI	!NNNNNNNGAACNNNNNNCTC	1	3162
PpsI	GAGTCNNNN!	5	1587; 1656; 2341; 3163; 3595
PpsI	!NNNNNGACTC	7	404; 598; 874; 2757; 3171; 4777; 5654
Ppu10I	A!TGCAT	3	3680; 3752; 6083
Ppu21I	YAC!GTR	4	340; 726; 3228; 4416
PpuMI	RG!GWCCY	1	1077
PscI	A!CATGT	1	6030
PshAI	GACNN!NNGTC	2	1451; 2686
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2895; 3100
PspO3I	GGWC!C	6	650; 1080; 1122; 2646; 4631; 5076
Psp5II	RG!GWCCY	1	1077
Psp6I	!CCWGG	23	88; 281; 643; 752; 1004; 1070; 1166; 1361; 1565; 1652; 2228; 2372; 2387; 2516; 3646; 3701; 3718; 4497; 5076; 5179; 5869; 5882; 6003
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	3	620; 712; 1040
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	23	88; 281; 643; 752; 1004; 1070; 1166; 1361; 1565; 1652; 2228; 2372; 2387; 2516; 3646; 3701; 3718; 4497; 5076; 5179; 5869; 5882; 6003
PspLI	C!GTACG	1	1449
PspN4I	GGN!NCC	22	467; 693; 871; 1078; 1641; 2039; 2109; 2169; 2560; 3267; 3288; 3300; 3491; 3652; 3724; 4113; 4148; 4996; 5075; 5120; 5963; 6002
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 3842; 4841
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	4244
PspPI	G!GNCC	19	83; 276; 647; 685; 1053; 1077; 1119; 1809; 2203; 2446; 2538; 2559; 2643; 3219; 4628; 5073; 5119; 5177; 5210
PspPPI	RG!GWCCY	1	1077
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	4	791; 3665; 3737; 5243
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	6	1058; 1518; 1889; 2298; 3578; 4773
PspXI	VC!TCGAGB	1	1039
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	GGNC!CY	2	1080; 5213
PstI	CTGCA!G	5	878; 959; 1373; 1490; 1733
PstNI	CAGNN!CTG	4	963; 1368; 5213; 5621
PsuI	R!GATCY	12	585; 609; 1022; 2037; 2593; 4283; 4529; 4921; 5280; 5292; 5378; 5389
PsyI	GACN!NNGTC	2	732; 4230
PteI	G!CGCGC	1	761
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	3610; 4218
RcaI	T!CATGA	2	3538; 5310
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	2	1013; 4627

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	2841
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNNNN!	1	1199
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	2	635; 782
RruI	TCG!CGA	0	
RsaI	GT!AC	13	219; 244; 299; 332; 383; 540; 1451; 1507; 1591; 2098; 2248; 2500; 4418
RsaNI	G!TAC	13	218; 243; 298; 331; 382; 539; 1450; 1506; 1590; 2097; 2247; 2499; 4417
RseI	CAYNN!NNRTG	6	365; 1775; 2021; 2056; 2086; 4549
RsrII	CG!GWCCG	1	4628
Rsr2I	CG!GWCCG	1	4628
SacI	GAGCT!C	3	620; 712; 1040
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	4456; 4666
SaqAI	T!TAA	20	7; 1634; 1802; 1967; 2072; 2297; 2813; 2874; 2995; 3016; 3027; 3039; 3050; 3067; 3165; 3436; 5255; 5269; 5274; 5326
SatI	GC!NGC	53	684; 759; 766; 786; 810; 852; 868; 955; 1012; 1045; 1105; 1369; 1436; 1475; 1538; 1700; 1725; 1843; 2202; 2253; 2397; 2514; 2695; 2756; 2759; 2889; 3408; 3430; 3444; 3882; 4021; 4073; 4084; 4174; 4179; 4216; 4257; 4344; 4347; 4350; 4586; 4682; 4723; 4737; 4851; 5190; 5205; 5416; 5622; 5625; 5690; 5833; 5988
Sau96I	G!GNCC	19	83; 276; 647; 685; 1053; 1077; 1119; 1809; 2203; 2446; 2538; 2559; 2643; 3219; 4628; 5073; 5119; 5177; 5210
Sau3AI	!GATC	23	585; 609; 1022; 2037; 2567; 2593; 2769; 3949; 3953; 3972; 4283; 4361; 4442; 4451; 4529; 4905; 4921; 5280; 5292; 5370; 5378; 5389; 5464
SbfI	CCTGCA!GG	3	878; 1490; 1733
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	5	1588; 1657; 2342; 3164; 3596
SchI	!NNNNNGACTC	7	404; 598; 874; 2757; 3171; 4777; 5654
SciI	CTC!GAG	2	615; 1041
ScrFI	CC!NGG	36	90; 283; 645; 688; 689; 754; 805; 806; 860; 861; 1006; 1072; 1168; 1192; 1363; 1567; 1654; 2230; 2279; 2374; 2389; 2518; 2627; 3648; 3703; 3720; 4116; 4276; 4499; 4889; 5078; 5181; 5653; 5871; 5884; 6005
SdaI	CCTGCA!GG	3	878; 1490; 1733
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	10	984; 1230; 1389; 1515; 1602; 2484; 3690; 3762; 3931; 5873
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	4	851; 1940; 4267; 4752
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	16	620; 694; 712; 860; 1040; 2110; 2137; 2170; 3303; 4058; 4151; 4225; 4415; 4477; 5187; 5720
SelI	!CGCG	21	58; 695; 761; 823; 1066; 1143; 1158; 2759; 3034; 3410; 3430; 3454; 3485; 4176; 4477; 4915; 4999; 5062; 5131; 5404; 5985
SetI	ASST!	103	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 649; 712; 724; 728; 736; 748; 950; 956; 965; 998; 1040; 1049; 1082; 1106; 1118; 1127; 1154; 1169; 1287; 1295; 1370; 1430; 1451; 1455; 1487; 1529; 1604; 1618; 1701; 1775; 1793; 1834; 1844; 1904; 1997; 2030; 2069; 2096; 2192; 2242; 2263; 2414; 2420; 2549; 2567; 2579; 2618; 2642; 2686; 2690; 2705; 2748; 2802; 2823; 2832; 2844; 2893; 3060; 3175; 3187; 3230; 3267; 3317; 3340; 3464; 3612; 3707; 3900; 4013; 4141; 4220; 4231; 4303; 4374; 4418; 4678; 4824; 4868; 5199; 5230; 5289; 5332; 5475; 5496; 5595; 5732; 5747; 5766; 5778; 5822; 5868; 5919
SexAI	A!CCWGGT	2	643; 3701
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	2025; 2291; 2928; 3691; 3763; 4411; 4475; 4750

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SfaNI	!NNNNNNNNNGATGC	11	357; 1085; 1202; 1617; 1655; 2444; 2612; 4070; 4325; 4541; 5933
SfcI	C!TRYAG	10	747; 874; 955; 1369; 1486; 1729; 1833; 3447; 5574; 5765
SfiI	GGCCNNNN!NGGCC	1	3887
SfoI	GGCIGCC	1	4113
Sfr274I	C!TCGAG	2	613; 1039
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	2	627; 4794
SgeI	CNNGNNNNNNNNN!	250	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 648; 663; 684; 699; 714; 729; 752; 765; 785; 810; 825; 849; 867; 885; 906; 930; 944; 970; 1005; 1018; 1038; 1051; 1069; 1083; 1098; 1111; 1126; 1154; 1171; 1185; 1203; 1216; 1254; 1270; 1291; 1306; 1330; 1360; 1374; 1396; 1431; 1452; 1491; 1527; 1557; 1572; 1588; 1605; 1628; 1665; 1681; 1723; 1740; 1778; 1798; 1825; 1848; 1866; 1908; 1930; 1945; 1994; 2032; 2056; 2076; 2094; 2112; 2142; 2166; 2184; 2199; 2241; 2256; 2280; 2299; 2323; 2336; 2364; 2385; 2400; 2427; 2449; 2482; 2502; 2515; 2529; 2547; 2560; 2577; 2590; 2610; 2631; 2652; 2665; 2703; 2726; 2747; 2772; 2819; 2848; 2890; 2973; 3047; 3131; 3153; 3185; 3222; 3240; 3259; 3274; 3316; 3333; 3350; 3385; 3399; 3416; 3438; 3462; 3486; 3551; 3565; 3603; 3619; 3659; 3672; 3691; 3714; 3731; 3744; 3763; 3793; 3814; 3831; 3854; 3889; 3916; 3947; 3969; 3995; 4017; 4036; 4064; 4100; 4119; 4142; 4156; 4176; 4189; 4203; 4222; 4236; 4255; 4287; 4301; 4314; 4340; 4371; 4384; 4401; 4418; 4432; 4449; 4467; 4482; 4510; 4526; 4545; 4567; 4583; 4606; 4625; 4650; 4669; 4689; 4716; 4740; 4773; 4792; 4820; 4834; 4900; 4924; 4939; 4962; 4983; 5000; 5048; 5075; 5089; 5118; 5142; 5175; 5192; 5212; 5225; 5238; 5296; 5323; 5342; 5372; 5397; 5417; 5431; 5456; 5474; 5511; 5549; 5578; 5606; 5620; 5640; 5655; 5676; 5690; 5709; 5727; 5743; 5783; 5803; 5830; 5848; 5869; 5882; 5895; 5912; 5936; 5959; 5991; 6016; 6043; 6065
SgeI	!NNNNNNNNNNNNCNG	215	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 622; 643; 673; 693; 712; 739; 759; 784; 808; 829; 846; 863; 880; 904; 928; 979; 1012; 1036; 1053; 1072; 1096; 1128; 1145; 1168; 1190; 1228; 1265; 1304; 1334; 1358; 1379; 1405; 1426; 1465; 1501; 1531; 1552; 1579; 1602; 1639; 1697; 1714; 1752; 1772; 1799; 1822; 1840; 1882; 1904; 1968; 2006; 2030; 2050; 2068; 2086; 2116; 2140; 2158; 2182; 2215; 2254; 2273; 2297; 2338; 2359; 2401; 2423; 2456; 2476; 2503; 2521; 2542; 2564; 2584; 2605; 2626; 2650; 2677; 2700; 2721; 2746; 2793; 2822; 2864; 2947; 3021; 3105; 3127; 3159; 3196; 3214; 3233; 3290; 3307; 3324; 3359; 3377; 3397; 3417; 3436; 3460; 3525; 3577; 3633; 3665; 3688; 3705; 3737; 3767; 3788; 3805; 3828; 3863; 3890; 3921; 3943; 3969; 3991; 4010; 4038; 4074; 4093; 4116; 4137; 4155; 4172; 4196; 4229; 4261; 4288; 4314; 4345; 4375; 4392; 4418; 4441; 4462; 4484; 4504; 4524; 4541; 4580; 4599; 4624; 4643; 4663; 4690; 4714; 4747; 4766; 4794; 4816; 4874; 4898; 4917; 4936; 4957; 4974; 5022; 5049; 5069; 5092; 5116; 5149; 5166; 5186; 5212; 5270; 5297; 5316; 5346; 5371; 5391; 5430; 5448; 5485; 5523; 5552; 5580; 5601; 5629; 5650; 5683; 5701; 5757; 5777; 5804; 5822; 5843; 5869; 5886; 5910; 5933; 5965; 5990; 6017; 6039; 6068
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3259; 5046; 5839
SimI	!GACCC	4	106; 4540; 5108; 5356
SinI	G!GWCC	6	647; 1077; 1119; 2643; 4628; 5073
SlaI	C!TCGAG	2	613; 1039
SmaI	CCC!GGG	3	689; 806; 861
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	6	365; 1775; 2021; 2056; 2086; 4549
SmlI	C!TYRAG	11	613; 619; 1039; 1048; 2578; 2617; 2994; 4503; 5385; 5662; 5924
SmoI	C!TYRAG	11	613; 619; 1039; 1048; 2578; 2617; 2994; 4503; 5385; 5662; 5924

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SmuI	CCCGCNNNN!	13	93; 119; 286; 748; 940; 1150; 2511; 2613; 3434; 3789; 3810; 5006; 5138
SmuI	!NNNNNNNGCGGG	7	1091; 2548; 3365; 4235; 4772; 4910; 5057
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3682; 3754; 4517
SrfI	GCCC!GGGC	1	689
Sse9I	!AATT	12	18; 629; 1198; 2862; 2926; 3004; 3030; 3041; 3688; 3760; 3852; 5270
Sse8387I	CCTGCA!GG	3	878; 1490; 1733
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	2	2482; 3933
SsiI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 669; 695; 741; 783; 933; 972; 1143; 1725; 2366; 2504; 2606; 2759; 3427; 3430; 3444; 3534; 3782; 3794; 3803; 3815; 3825; 3836; 3882; 4021; 4084; 4586; 4631; 4697; 4723; 4848; 4851; 4999; 5131; 5438; 5582; 6078
SsiI	G!CGG	32	370; 403; 528; 683; 809; 846; 867; 1098; 2201; 2513; 2555; 2755; 3372; 3399; 3487; 3597; 4178; 4242; 4343; 4346; 4626; 4681; 4779; 4917; 5064; 5204; 5447; 5692; 5813; 5832; 5959; 5987
SspI	AAT!ATT	2	3020; 3573
SspDI	G!GCGCC	1	4111
SspD5I	GGTGANNNNNNNN!	6	376; 2070; 2439; 2749; 5183; 5299
SspD5I	!NNNNNNNNNTCACC	5	1604; 1761; 2327; 3228; 4289
SstI	GAGCT!C	3	620; 712; 1040
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	2372
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	25	92; 118; 285; 694; 747; 811; 866; 939; 1149; 2294; 2510; 2612; 2633; 3311; 3433; 3788; 3809; 4122; 4525; 4664; 4735; 5005; 5137; 5367; 5805
Sth132I	!NNNNNNNNNGCGG	26	15; 407; 470; 680; 797; 852; 1090; 1183; 2270; 2343; 2547; 3312; 3364; 3465; 4192; 4234; 4267; 4771; 4880; 4909; 5056; 5160; 5191; 5644; 5688; 5896
Sth302II	CC!GG	29	602; 689; 703; 718; 806; 861; 1111; 1192; 1546; 1594; 2045; 2279; 2628; 3331; 4018; 4095; 4117; 4145; 4276; 4366; 4433; 4614; 4889; 4897; 4989; 5463; 5653; 5679; 5826
StrI	C!TCGAG	2	613; 1039
StsI	GGATGNNNNNNNNNN!	9	688; 1274; 1424; 1640; 1748; 3980; 4437; 4462; 4916
StsI	!NNNNNNNNNNNNNNCATCC	4	2123; 2211; 2268; 3784
StuI	AGG!CCT	2	2482; 3933
StyI	C!CWWGG	7	360; 1056; 2054; 3841; 3934; 4544; 4949
StyD4I	!CCNGG	36	88; 281; 643; 686; 687; 752; 803; 804; 858; 859; 1004; 1070; 1166; 1190; 1361; 1565; 1652; 2228; 2277; 2372; 2387; 2516; 2625; 3646; 3701; 3718; 4114; 4274; 4497; 4887; 5076; 5179; 5651; 5869; 5882; 6003
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 1974; 2112; 3203; 4492; 4608; 4716; 5039; 5530; 6000; 6071
TaiI	ACGT!	22	125; 137; 178; 261; 342; 447; 728; 736; 1287; 1451; 1455; 2414; 2642; 2690; 3175; 3187; 3230; 3340; 4231; 4418; 5199; 5332
TaqI	T!CGA	20	614; 627; 989; 1040; 1148; 1403; 2195; 2222; 2690; 3261; 3952; 4225; 4381; 4405; 4441; 4603; 4794; 4839; 5094; 5932
TaqII	GACCGANNNNNNNNNN!	3	3132; 4149; 4817
TaqII	!NNNNNNNNNTCGGTC	1	5061
TaqII	CACCCANNNNNNNNNN!	1	2185
TaqII	!NNNNNNNNNTGGGTG	3	172; 4016; 4608
TasI	!AATT	12	18; 629; 1198; 2862; 2926; 3004; 3030; 3041; 3688; 3760; 3852; 5270
TatI	W!GTACW	5	217; 297; 330; 381; 2096
TauI	GCSG!C	24	686; 785; 812; 870; 1727; 2204; 2516; 2758; 2761; 3432; 3446; 3884; 4023; 4086; 4181; 4346; 4349; 4588; 4684; 4725; 4853; 5207; 5835; 5990
TfiI	G!AWTC	11	1309; 1380; 1740; 1921; 2183; 2660; 4597; 4731; 4841; 4878; 6056
TliI	C!TCGAG	2	613; 1039

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TruI	T!TAA	20	7; 1634; 1802; 1967; 2072; 2297; 2813; 2874; 2995; 3016; 3027; 3039; 3050; 3067; 3165; 3436; 5255; 5269; 5274; 5326
Tru9I	T!TAA	20	7; 1634; 1802; 1967; 2072; 2297; 2813; 2874; 2995; 3016; 3027; 3039; 3050; 3067; 3165; 3436; 5255; 5269; 5274; 5326
TscAI	CASTGNN!	6	1590; 2958; 4241; 5351; 5622; 5635
TseI	G!CWGC	30	758; 765; 785; 851; 954; 1011; 1044; 1104; 1368; 1435; 1474; 1537; 1699; 1842; 2252; 2396; 2694; 2888; 3407; 4072; 4173; 4215; 4256; 4349; 4736; 5189; 5415; 5621; 5624; 5689
TsoI	TARCCANNNNNNNNNNN!	3	1143; 3084; 3431
TsoI	!NNNNNNNNNTGGYTA	3	2221; 2889; 4641
Tsp45I	!GTSAC	8	726; 1444; 1768; 2334; 2530; 3401; 4232; 4538
Tsp509I	!AATT	12	18; 629; 1198; 2862; 2926; 3004; 3030; 3041; 3688; 3760; 3852; 5270
TspDTI	ATGAANNNNNNNNNNN!	6	1478; 1765; 2104; 2870; 4171; 4875
TspDTI	!NNNNNNNNNTTCAT	6	26; 2232; 2253; 4589; 5045; 5252
TspEI	!AATT	12	18; 629; 1198; 2862; 2926; 3004; 3030; 3041; 3688; 3760; 3852; 5270
TspGWI	ACGGANNNNNNNNNNN!	1	4987
TspGWI	!NNNNNNNNNTCCGT	1	639
TspMI	C!CCGGG	3	687; 804; 859
TspRI	CASTGNN!	6	1590; 2958; 4241; 5351; 5622; 5635
TstI	CACNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	2	732; 4230
Tth111II	CAARCANNNNNNNNNNN!	2	2284; 5439
Tth111III	!NNNNNNNNNTGYTTG	3	4547; 5407; 5446
UnbI	!GGNCC	19	82; 275; 646; 684; 1052; 1076; 1118; 1808; 2202; 2445; 2537; 2558; 2642; 3218; 4627; 5072; 5118; 5176; 5209
Van9II	CCANNNN!NTGG	1	2652
Vha464I	C!TTAAG	1	2994
VneI	G!TGCAC	2	2133; 5716
VpaK11AI	!GGWCC	6	646; 1076; 1118; 2642; 4627; 5072
VpaK11BI	G!GWCC	6	647; 1077; 1119; 2643; 4628; 5073
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	6	669; 1084; 1171; 1489; 1531; 1564
XapI	R!AATTY	4	629; 2926; 3030; 3041
XbaI	T!CTAGA	1	2766
XceI	RCATG!Y	7	1396; 2085; 2531; 3682; 3754; 4517; 6034
XcmI	CCANNNNN!NNNNTGG	3	945; 1650; 1717
XhoI	C!TCGAG	2	613; 1039
XhoII	R!GATCY	12	585; 609; 1022; 2037; 2593; 4283; 4529; 4921; 5280; 5292; 5378; 5389
XmaI	C!CCGGG	3	687; 804; 859
XmaJI	C!CTAGG	2	3934; 4949
XmiI	GT!MKAC	1	2633
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	592; 1982; 2767; 2961; 3379; 3935; 4950; 5284; 5537
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3684; 3756; 6087