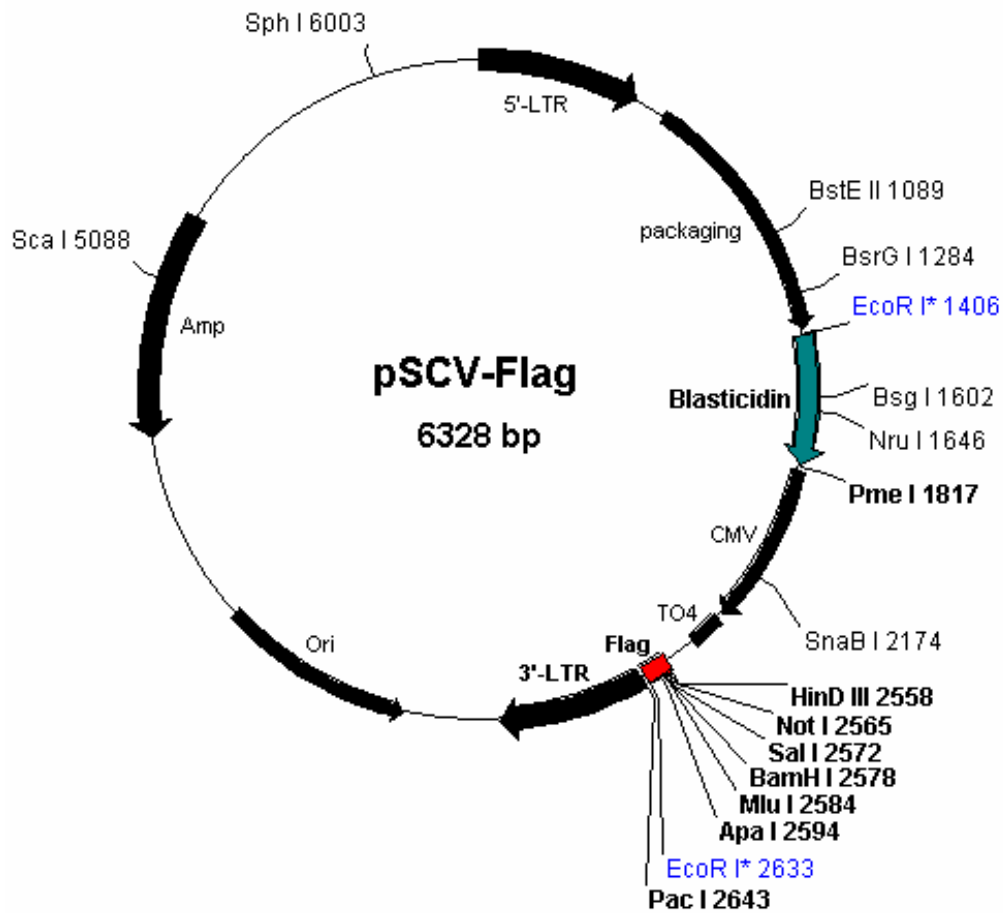


Vector: pSCV-Flag

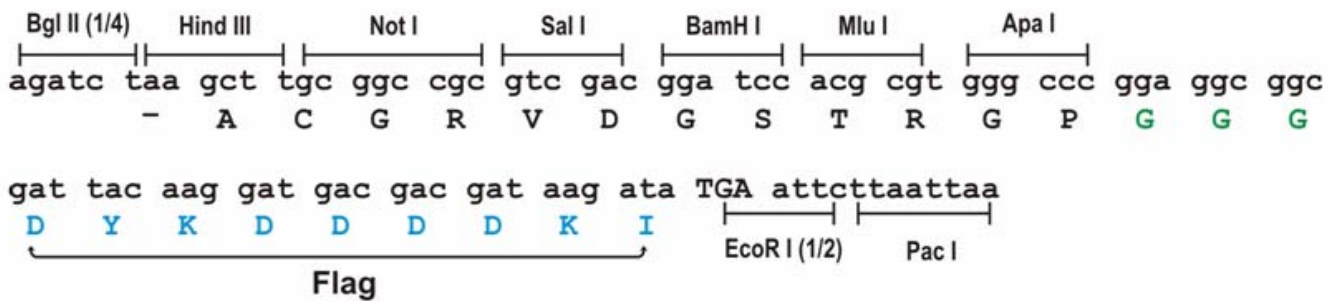
Antibiotic Selection: Amp

Creator(s): Hong Yin, Molecular Oncology Lab of The University of Chicago

Date of Construction: June, 2005



Linker Sequence



pSCV-Flag Full-Length Sequence

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GCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTCCCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGG
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CTGCCACCT CGGGGTCTT TCATTTGGAG GTTCCACCGA GATTTGGAGACCCCTGCCA GGGACCACCGACCCCCCGC
CGGGAGGTAA GCTGGCCAGC GGTCGTTTCGTGTCTGTCTC TGTCTTTGTG CGTGTTTGTG CCGGCATCTAATGTTTGC
CTGCGTCTGTACTAGTTAGC TAACTAGCTC TGTATCTGGC GGACCCGTGG TGGAACTGAC GAGTCTGAACACCCGGCCG
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		3089	3152	3454	3875			5403	5891		
		5949	6027	6033		Eco47 III	(2)	925	6069		
BsaW I	(3)	3921	4068	4899		Eco57 I	(4)	1511	4262	5276	6280
BseR I	(4)	466	1295	1334	3155	EcoN I	(2)	786	1394		
Bsg I	(1)	1602				EcoO109 I	(6)	256	1221	1574	2946
BsiE I	(10)	594	729	1534	1650			5584	6038		
		2568	3631	4055	4978	EcoR I	(2)	1406	2633		
		5127	5874			EcoR II	(20)	241	548	735	748
BsiHKA I	(7)	340	2402	3030	4033			1169	1194	1217	1237
		5194	5279	5776				1267	1717	1922	2115
BsmA I	(23)	108	477	533	611			2513	2931	3453	3741
		736	834	951	1075			3862	3875	5948	6225
		1134	1152	1330	1433	EcoR V	(3)	141	2831	6216	
		2267	2513	2675	2798	Ehe I	(5)	1401	5832	6015	6129
		3145	3166	4670	5444			6150			
		5597	5641	6313		Fnu4H I	(37)	729	903	919	922
BsmB I	(8)	735	833	1074	1133			927	930	1135	1515
		1331	2512	5598	5640			1534	1608	1611	1614
BsmF I	(13)	174	187	566	731			1617	1620	1784	2565
		766	1207	1587	2009			2568	2601	3540	3621
		2160	2328	2864	2877			3639	3642	3760	3915
		6009						4058	4123	4126	4332
BsoF I	(37)	729	903	919	922			4660	4999	5026	5121
		927	930	1135	1515			5350	5637	5746	5850
		1534	1608	1611	1614			5923			
		1617	1620	1784	2565	Fok I	(13)	425	1142	1302	1466
		2568	2601	3540	3621			1701	2511	2626	3114
		3639	3642	3760	3915			4574	4755	5042	5685
		4058	4123	4126	4332			5929			
		4660	4999	5026	5121	Fsp I	(2)	4830	5853		
		5350	5637	5746	5850	Gdi II	(11)	725	727	1131	1530
		5923						1532	2564	2566	3555
Bsp120 I	(1)	2590						4995	6031	6163	
BspH I	(4)	4435	5443	5548	6072	Gau I	(4)	2535	2659	4679	6297
Bsr I	(17)	376	1032	1060	1548	Hae I	(6)	586	1113	1418	3730
		1572	2130	3066	3516			3741	4193		
		4122	4135	4249	4655	Hae II	(9)	927	1403	3593	3963
		4773	4816	5083	5255			5834	6017	6071	6131
		5961						6152			
BsrB I	(4)	1044	3407	3648	5449	Hae III	(31)	130	175	586	728
BsrD I	(2)	4669	4843					764	776	989	1113
BsrG I	(1)	1284						1134	1199	1418	1533
BssH II	(4)	319	370	3009	3060			1918	2111	2567	2592
BssS I	(4)	1589	3888	5272	5579			2820	2865	3556	3730
BstE II	(1)	1089						3741	3759	4193	4651
BstN I	(20)	243	550	737	750			4731	4998	5585	5883
		1171	1196	1219	1239			6032	6040	6164	
		1269	1719	1924	2117	Hga I	(13)	383	644	897	1493
		2515	2933	3455	3743			2359	2528	2560	3073
		3864	3877	5950	6227			3825	4403	5135	5693
BstU I	(23)	319	321	372	905			6162			
		907	1137	1646	1894	HgiA I	(7)	340	2402	3030	4033
		2570	2586	3009	3011			5194	5279	5776	
		3062	3562	3564	3762	HgiE II	(2)	4294	5774		
		4343	4673	5166	5498	Hha I	(36)	321	323	372	374
		5598	5600	5703				650	907	926	1402
BstY I	(11)	2420	2441	2462	2552			1514	3011	3013	3062
		2578	4356	4367	4453			3064	3339	3499	3564
		4465	5233	5250				3592	3625	3895	3962
Bsu36 I	(2)	783	1020					4062	4236	4345	4738
Cac8 I	(34)	28	32	321	372			4831	5168	5500	5600
		584	588	633	652			5703	5833	5854	5987
		1201	1510	1624	1920			6016	6070	6130	6151
		2113	2562	2718	2722	HinC II	(1)	2574			
		3011	3062	3508	3537	Hind II	(1)	2574			
		3646	3732	3769	4329	Hind III	(1)	2558			
		4720	5733	5881	5901	Hinf I	(16)	444	452	793	804
		5905	6001	6042	6090			1439	1771	2244	3250
		6132	6162					3272	3293	3550	3615
Cfr10 I	(4)	631	4688	6151	6160			3690	4086	4603	6241
Csp6 I	(13)	404	660	1285	2052	HinI I	(13)	744	1400	1956	2009
		2077	2132	2165	2216			2092	2278	2521	5145
		2373	3094	5087	5763			5527	5831	6014	6128
		6274						6149			
Dde I	(20)	75	169	210	478	HinP I	(36)	319	321	370	372
		783	1020	1292	1810			648	905	924	1400
		2556	2765	2859	2900			1512	3009	3011	3060
		3169	3240	3990	4399			3062	3337	3497	3562
		4565	5105	5531	5766			3590	3623	3893	3960
Dpn I	(31)	95	461	1048	1180			4060	4234	4343	4736
		1365	1649	1710	1724			4829	5166	5498	5598
		2422	2443	2464	2485			5701	5831	5852	5985
		2510	2554	2580	2785			6014	6068	6128	6149
		4283	4358	4369	4377	Hpa II	(25)	165	400	571	632
		4455	4467	4572	4913			725	1403	2594	2855
		4931	4977	5235	5252			3090	3433	3922	4069
		5288	5873	6097				4095	4285	4689	4723
DpnII	(31)	93	459	1046	1178			4790	4900	5142	5643
		1363	1647	1708	1722			5677	6029	6152	6161
		2420	2441	2462	2483			6176			
		2508	2552	2578	2783	Hph I	(14)	1159	1185	1403	2209
		4281	4356	4367	4375			4452	4679	5093	5301
		4453	4465	4570	4911			5334	5618	5627	6120
		4929	4975	5233	5250			6165	6246		
		5286	5871	6095		Kas I	(5)	1399	5830	6013	6127
Dra I	(4)	1817	4474	4493	5185			6148			
Drd I	(3)	1502	3823	5692		Kpn I	(2)	407	3097		
Dsa I	(4)	696	1413	2194	6033	Mae I	(13)	31	221	663	675
Eae I	(11)	584	726	1111	1132			1396	1524	1834	2721
		1416	1531	2565	3554			2911	4210	4463	4798
		4996	6030	6162				6233			
Eag I	(3)	726	1531	2565		Mae II	(14)	744	1083	1124	1956
Ear I	(6)	1072	1313	3337	3599			1968	2009	2092	2173

		2278	4418	4834	5207	Rsa I	(13)	405	661	1286	2053
		5527	5969					2078	2133	2166	2217
Mae III	(21)	39	996	1024	1089			2374	3095	5088	5764
		1233	1895	1982	2331			6275			
		2729	3207	4071	4134	Sac I	(3)	340	2402	3030	
		4250	4533	4864	4922	Sal I	(1)	2572			
		5075	5263	5651	5942	Sap I	(2)	3337	3599		
		5962				Sau3A I	(31)	93	459	1046	1178
Mbo I	(31)	93	459	1046	1178			1363	1647	1708	1722
		1363	1647	1708	1722			2420	2441	2462	2483
		2420	2441	2462	2483			2508	2552	2578	2783
		2508	2552	2578	2783			4281	4356	4367	4375
		4281	4356	4367	4375			4453	4465	4570	4911
		4453	4465	4570	4911			4929	4975	5233	5250
		4929	4975	5233	5250			5286	5871	6095	
		5286	5871	6095		Sau96 I	(30)	128	173	188	201
Mbo II	(15)	1088	1301	1447	1504			256	553	692	762
		1532	2561	3353	3587			775	987	1198	1221
		4376	4449	5204	5282			1574	1917	2110	2590
		5391	5879	6091				2591	2818	2863	2878
Mlu I	(1)	2584						2891	2946	4650	4729
Mme I	(6)	831	1108	3154	3206			4746	4968	5584	5881
		3929	4113					6038	6223		
Mnl I	(48)	218	370	389	434	Sca I	(1)	5088			
		462	486	508	512	ScrF I	(35)	165	243	400	401
		568	778	874	1170			550	572	725	737
		1273	1306	1312	1315			750	1171	1196	1219
		1321	1351	1354	1369			1239	1269	1719	1924
		1376	1392	1456	1797			2117	2515	2594	2855
		1798	2375	2551	2590			2933	3090	3091	3455
		2908	3060	3079	3124			3743	3864	3877	4095
		3151	3175	3235	3564			4791	5142	5643	5678
		3613	3823	3896	4147			5950	6029	6227	
		4547	4628	4774	4980	Sec I	(31)	163	242	252	399
		5575	5633	5893	6177			463	499	548	549
Msc I	(3)	586	1113	1418				696	735	736	748
Mse I	(26)	36	1009	1121	1151			749	1169	1238	1247
		1175	1816	1841	2639			1267	1268	1413	1718
		2643	2726	3260	3358			2194	2853	2932	2942
		3486	3545	4421	4473			3089	3152	3454	3875
		4478	4492	4545	4780			5949	6027	6033	
		4819	5184	5556	5737	SfaN I	(21)	187	446	643	940
		5934	6204					1487	1544	1676	1722
Msl I	(3)	2199	4860	5019				2192	2877	3135	3811
Msp I	(25)	165	400	571	632			4863	5056	5303	5664
		725	1403	2594	2855			5756	5794	5832	6148
		3090	3433	3922	4069			6160			
		4095	4285	4689	4723	Sfc I	(10)	15	919	927	1103
		4790	4900	5142	5643			1498	2705	3980	4171
		5677	6029	6152	6161			4849	6267		
		6176						401	3091		
MspAl I	(10)	590	1622	3191	3539	Sma I	(2)	401			
		4057	4302	5243	5709	SnaB I	(1)	2174			
		5903	6259			Spe I	(2)	662	1833		
		633	6162			Sph I	(1)	6003			
Nae I	(2)	1400	5831	6014	6128	Ssp I	(2)	3258	5412		
Nar I	(5)	6149				Sty I	(7)	252	463	1247	1413
		165	400	401	572			2194	2942	3152	
Nci I	(15)	725	2594	2855	3090	Taq I	(10)	796	1040	1351	1362
		3091	4095	4791	5142			1707	2486	2573	3253
		5643	5678	6029				3815	5259		
		1413	2194			Tfi I	(7)	444	804	1439	1771
Nco I	(2)	2068	5779					3293	3550	3690	
Nde I	(2)	631	6160			Tsp45 I	(6)	1024	1233	4864	5075
NgoM I	(2)	30	2720					5651	5962		
Nhe I	(2)	62	1207	1417	2138	Tth111 I	(4)	392	813	1219	3082
Nla III	(19)	2198	2752	3206	3373	Tth111 II	(8)	147	424	615	634
		3719	4439	4930	4940			2837	4304	4313	4343
		5018	5054	5447	5552	Vsp I	(5)	1841	3358	3486	3545
		5636	6003	6076				4780			
Nla IV	(34)	190	203	248	405	Xba I	(2)	220	2910		
		523	554	694	763	Xho II	(11)	2420	2441	2462	2552
		895	1146	1223	1401			2578	4356	4367	4453
		1575	1691	2301	2580			4465	5233	5250	
		2592	2880	2893	2938	Xma I	(2)	399	3089		
		3095	3461	3747	3786	Xma III	(3)	726	1531	2565	
		4558	4652	4693	4904	Xmn I	(3)	3321	3359	5207	
		5494	5832	6015	6039						
		6129	6150								
Not I	(1)	2565									
Nru I	(1)	1646									
Nsp7524 I	(3)	3715	5632	5999							
NspB II	(10)	590	1622	3191	3539	Aat II	G,ACGT`C	6	Acc I	GT`MK,AC	1
		4057	4302	5243	5709	Acc65 I	G`GTAC,C	2	Aci I	C`CG,C	67
		5903	6259			Afl II	C`TTAA,G	3	Afl III	A`CRYG,T	2
		3719	5636	6003		Age I	A`CCGG,T	-	Aha II	GR`CG,YC	13
NspH I	(3)	170	175	586	728	Ahd I	GACNN,N`NNGTC	4	Alu I	AG CT	30
Pac I	(1)	2643				Alw I	GGATC 8/9	14	AlwN I	CAG,NNN`CTG	3
Pal I	(31)	130	175	586	728	Apa I	G,GGCC`C	1	ApaL I	G`TGCA,C	3
		764	776	989	1113	Apo I	R`AATT,Y	3	Asc I	GG`CGCG,CC	2
		1134	1199	1418	1533	Ase I	AT`TA,AT	5	Asp718	G`GTAC,C	2
		1918	2111	2567	2592	Ava I	C`YCGR,G	5	Ava II	G`GWC,C	13
		2820	2865	3556	3730	Avr II	C`CTAG,G	-	BamH I	G`GATC,C	1
		3741	3759	4193	4651	Ban I	G`GYRC,C	13	Ban II	G,RCGY`C	9
		4731	4998	5585	5883	Bbe I	G,GGCC`C	5	Bbs I	GAAGAC 8/12	1
		6032	6040	6164		Bbv I	GCAGC 13/17	9	Bbv II	GAAGAC 7/11	1
Ple I	(3)	801	3258	4094		Bcl I	T`GATC,A	-	Bcn I	CC,S`GG	15
Pme I	(1)	1817				Bfa I	C`TA,G	13	Bgl I	GCCN,NNN`GGGC	5
PpuM I	(4)	256	1221	1574	2946	Bgl II	A`GATC,T	4	Blp I	GC`TNA,GC	-
Psp1406 I	(2)	4834	5207			Bpm I	CTGGAG 22/20	4	Bsa I	GGTCTC 7/11	6
PspA I	(2)	399	3089			BsaA I	YAC GTR	1	BsaB I	GATNN NNATC	5
Pst I	(3)	923	931	1107		BsaH I	GR`CG,YC	13	BsaJ I	C`CNNG,G	31
Pvu I	(3)	1650	4978	5874		BsaW I	W`CCGG,W	3	BseR I	GAGGAG 16/14	4
Pvu II	(4)	1622	3539	5903	6259	Bsg I	GTGCAG 22/20	1	BsIC I	TT`CG,AA	-

Site usage in pSCV-Flag:

Aat II	G,ACGT`C	6	Acc I	GT`MK,AC	1
Acc65 I	G`GTAC,C	2	Aci I	C`CG,C	67
Afl II	C`TTAA,G	3	Afl III	A`CRYG,T	2
Age I	A`CCGG,T	-	Aha II	GR`CG,YC	13
Ahd I	GACNN,N`NNGTC	4	Alu I	AG CT	30
Alw I	GGATC 8/9	14	AlwN I	CAG,NNN`CTG	3
Apa I	G,GGCC`C	1	ApaL I	G`TGCA,C	3
Apo I	R`AATT,Y	3	Asc I	GG`CGCG,CC	2
Ase I	AT`TA,AT	5	Asp718	G`GTAC,C	2
Ava I	C`YCGR,G	5	Ava II	G`GWC,C	13
Avr II	C`CTAG,G	-	BamH I	G`GATC,C	1
Ban I	G`GYRC,C	13	Ban II	G,RCGY`C	9
Bbe I	G,GGCC`C	5	Bbs I	GAAGAC 8/12	1
Bbv I	GCAGC 13/17	9	Bbv II	GAAGAC 7/11	1
Bcl I	T`GATC,A	-	Bcn I	CC,S`GG	15
Bfa I	C`TA,G	13	Bgl I	GCCN,NNN`GGGC	5
Bgl II	A`GATC,T	4	Blp I	GC`TNA,GC	-
Bpm I	CTGGAG 22/20	4	Bsa I	GGTCTC 7/11	6
BsaA I	YAC GTR	1	BsaB I	GATNN NNATC	5
BsaH I	GR`CG,YC	13	BsaJ I	C`CNNG,G	31
BsaW I	W`CCGG,W	3	BseR I	GAGGAG 16/14	4
Bsg I	GTGCAG 22/20	1	BsIC I	TT`CG,AA	-

BsiE I	CG,RY`CG	10	BsiHKA I	G,WGCW`C	7	Mbo I	`GATC,	31	Mbo II	GAAGA 12/11	15
BsiW I	C`GTAC,G	-	Bsm I	GAATG,C 7	-	Mlu I	A`CGCG,T	1	Mme I	TCCRAC 25/23	6
BsmA I	GTCCTC`/9	23	BsmB I	CGTCTC 7/11	8	Mnl I	CCTC 10/10	48	Msc I	TGG CCA	3
BsmF I	GGGAC 15/19	13	BsoF I	GC`N,GC	37	Mse I	T`TA,A	26	Msl I	CAYNN NNRTG	3
Bsp120 I	G`GGCC,C	1	Bsp1286 I	G,DGCH`C	-	Msp I	C`CG,G	25	MspA1 I	CMG CKG	10
BspH I	T`CATG,A	4	BspM I	ACCTGC 10/14	-	Mun I	C`AATT,G	-	Nae I	GCC GGC	2
BspM II	T`CCGG,A	4	Bsr I	ACT,GG`	17	Nar I	GG`CG,CC	5	Nci I	CC`S,GG	15
BsrB I	GAG CGG	4	BsrD I	GCAATG, 8	2	Nco I	C`CATG,G	2	Nde I	CA`TA,TG	2
BsrG I	T`GTAC,A	1	BssH II	G`CGCG,C	4	NgoM I	G`CCGG,C	2	Nhe I	G`CTAG,C	2
BssS I	C`TCGT,G	4	Bst1107 I	GTA TAC	-	Nla III	,CATG`	19	Nla IV	GN NCC	34
BstB I	TT`CG,AA	-	BstE II	G`GTNAC,C	1	Not I	GC`GGCC,GC	1	Nru I	TCG CGA	1
BstN I	CC`W,GG	20	BstU I	CG CG	23	Nsi I	A,TGCA`T	-	Nsp7524 I	R`CATG,Y	3
BstX I	CCAN,NNNN`NTGG	-	BstY I	R`GATC,Y	11	NspB II	CMG CKG	10	NspH I	R,CATG`Y	3
Bsu36 I	CC`TNA,GG	2	Cac8 I	GCN NGC	34	Pac I	TTA,AT`TAA	1	Paer7 I	C`TCGA,G	-
Cfr10 I	R`CCGG,Y	4	Cla I	AT`CG,AT	-	Pal I	GG CC	31	Pflm I	CCAN,NNN`NTGG	-
Csp6 I	G`TA,C	13	Dde I	C`TNA,G	20	Ple I	GAGTC 9/10	3	Pme I	CTTT AAAC	1
Dpn I	GA TC	31	DpnII	`GATC,	31	Pml I	CAC GTG	-	Ppum I	RG`GWC,CY	4
Dra I	TTT AAA	4	Dra III	CAC,NNN`GTG	-	Psp1406 I	AA`CG,TT	2	PspA I	C`CCGG,G	2
Drd I	GACNN,NN`NNGTC	3	Dsa I	C`CRYG,G	4	Pst I	C,TGCA`G	3	Pvu I	CG,AT`CG	3
Eae I	Y`GGCC,R	11	Eag I	C`GGCC,G	3	Pvu II	CAG CTG	4	Rsa I	GT AC	13
Ear I	CTCTTC 7/10	6	Eco47 III	AGC GCT	2	Rsr II	CG`GWC,CG	-	Sac I	G,AGCT`C	3
Eco57 I	CTGAAG 21/19	4	Eco72 I	CAC GTG	-	Sac II	CC,GC`GG	-	Sal I	G`TCGA,C	1
EcoN I	CCTNN`N,NNAGG	2	Eco109 I	RG`GNC,CY	6	Sap I	GCTCTTC 8/11	2	Sau3A I	`GATC,	31
EcoR I	G`AATT,C	2	EcoR II	`CCWGG,	20	Sau96 I	G`GNC,C	30	Sca I	AGT ACT	1
EcoR V	GAT ATC	3	Ehe I	GGC GCC	5	ScrF I	CC`N,GG	35	Sec I	C`CNNG,G	31
Esp I	GC`TNA,GC	-	Fnu4H I	GC`N,GC	37	SfaN I	GCATC 9/13	21	Sfc I	C`TRYA,G	10
Fok I	GGATG 14/18	13	Fse I	GG,CCGG`CC	-	Sfi I	GGCCN,NNN`NGGCC	-	Sma I	CCC GGG	2
Fsp I	TGC GCA	2	Gdi II	`YGGC,CG	11	SnaB I	TAC GTA	1	Spe I	A`CTAG,T	2
Gsu I	CTGGAG 21/19	4	Hae I	WGG CCW	6	Sph I	G,CATG`C	1	SpI I	C`GTAC,G	-
Hae II	R,GCGC`Y	9	Hae III	GG CC	31	Srf I	GCCC GGGC	-	Ssp I	AAT ATT	2
Hga I	GACGC 9/14	13	HgiA I	G,WGCW`C	7	Stu I	AGG CCT	-	Sty I	C`CWG,G	7
HgiE II	ACCNNNNNNGGT -1/132	-	Hha I	G,CG`C	36	Taq I	T`CG,A	10	Tfi I	G`AWT,C	7
Hinc II	GTY RAC	1	Hind II	GTY RAC	1	Tsp45 I	`GTSAC,	6	Tth111 I	GACN`N,NGTC	4
Hind III	A`AGCT,T	1	Hinf I	G`ANT,C	16	Tth111 II	CAARCA 16/14	8	Vsp I	AT`TA,AT	5
HinI I	GR`CG,YC	13	HinP I	G`CG,C	36	Xba I	T`CTAG,A	2	Xca I	GTA TAC	-
Hpa I	GTT AAC	-	Hpa II	C`CG,G	25	Xcm I	CCANNNN,N`NNNNTGG-	-	Xho I	C`TCGA,G	-
Hph I	GGTGA 12/11	14	Kas I	G`GCGC,C	5	Xho II	R`GATC,Y	11	Xma I	C`CCGG,G	2
Kpn I	G,GTAC`C	2	Mae I	C`TA,G	13	Xma III	C`GGCC,G	3	Xmn I	GAANN NNITC	3
Mae II	A`CG,T	14	Mae III	`GTNAC,	21						