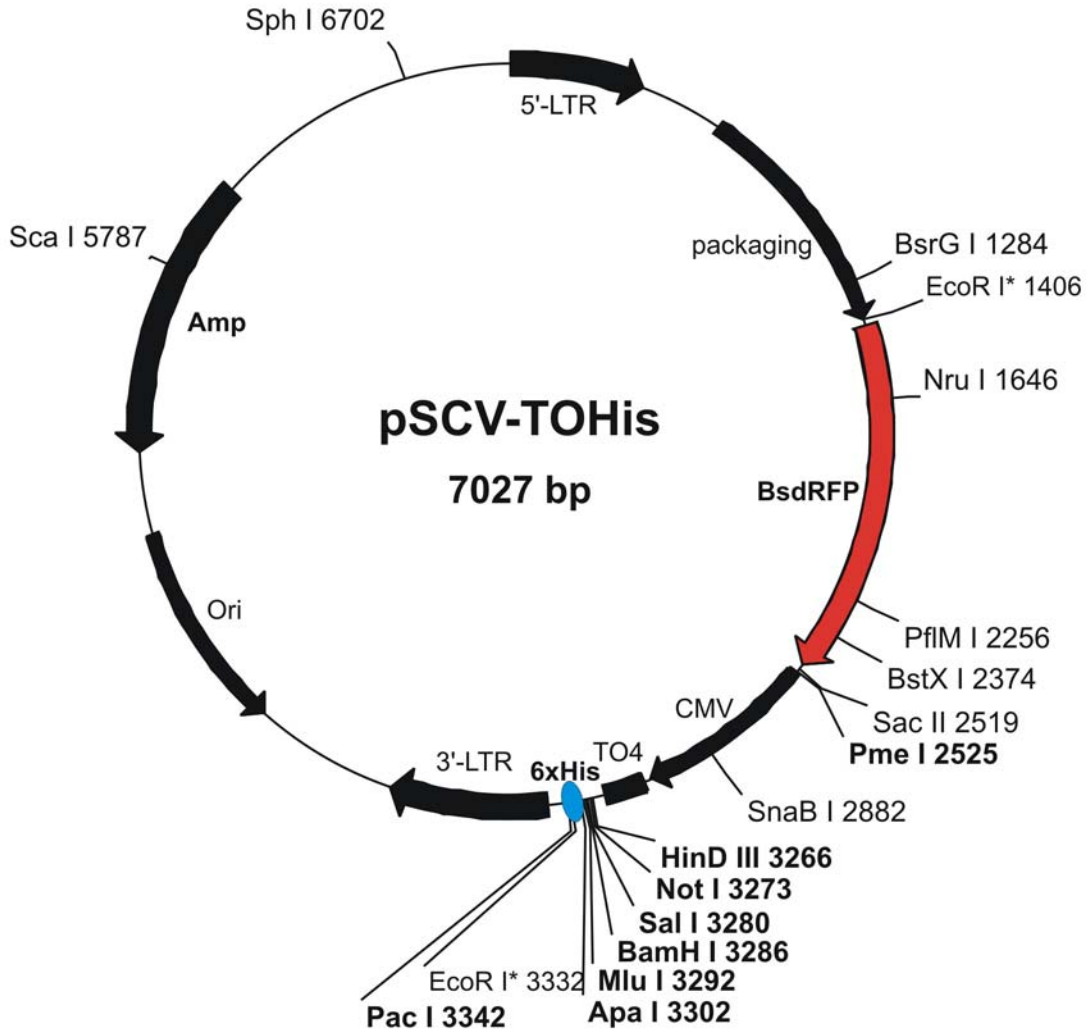
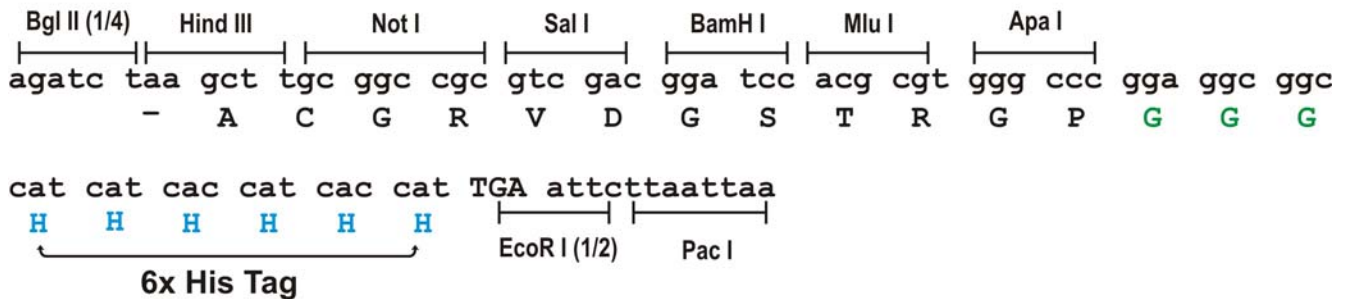


Name of Vector: pSCV-TOHis
 Antibiotic Selection: Amp
 Created by: Hong Yin
 (He Lab @ The University of Chicago)
 Date of Creation: April 2005



Linker Sequence



pSCV-TOHis Sequence

TGAAAGACCC CACCTGTAGG TTTGGCAAGC TAGCTTAAGT AACGCCATTT TGCAAGGCATGGAAAATACATAACTGAGAA
TAGAGAAGTT CAGATCAAGG TTAGGAACAG AGAGACAGCAGAATATGGGC CAAACAGGAT ATCTGTGGTAAGCAGTTCCCT
GCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTCCCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTTCCAGG
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CTGCCACCT CGGGGTCTT TCATTTGGAG GTTCCACCGA GATTTGGAGACCCTGCCA GGGACCACCGACCCCCCGC
CGGGAGGTAA GCTGGCCAGC GGTGTTTTCTGTCTGTCTC TGTCTTTGTG CGTGTTTGTG CCGCATCTAATGTTTGC
CTGCTCTGTACTAGTTAG TAACTAGCTC TGTATCTGGC GGACCCGTGG TGAAGTGA GAGTCTGAACACCCGGCCG
CAACCTGGG AGACGTCCA GGGACTTTGG GGGCCGTTTT TGTGGCCGACCTGAGGAAG GGATCGATGTGAATCCGA
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		5736	6347			584	588	633	652
Bbv II	(2)	1499	2251			1201	1510	1624	2478
Bcn I	(16)	166	401	402	573	2628	2821	3270	3417
		726	2401	3303	3555	3421	3710	3761	4207
		3790	3791	4795	5491	4236	4345	4431	4468
		5842	6343	6378	6729	5028	5419	6432	6580
Bfa I	(14)	31	221	663	675	6600	6604	6700	6741
		1396	1524	1812	2542	6789	6831	6861	
		3420	3610	4909	5162	Cfr10 I	(5)	631	2498
		5497	6932					5387	6850
Bgl I	(5)	2632	2754	2825	5427	Csp6 I	(16)	404	660
		6545						1285	2029
Bgl II	(4)	3128	3149	3170	3260			2281	2470
Bpm I	(4)	3244	3357	5377	6995			2840	2873
Bsa I	(6)	478	532	1151	3845	Dde I	(21)	3793	5786
		3866	5368					75	169
BsaA I	(2)	2047	2882					783	1020
BsaB I	(5)	1713	3127	3148	3169			2506	3264
		3190						3599	3868
BsaH I	(18)	744	1400	1848	2295			5098	5264
		2352	2403	2502	2664	Dpn I	(34)	6465	
		2717	2800	2986	3229			95	461
		5844	6226	6530	6713			1365	1649
		6827	6848					1916	2312
BsaJ I	(42)	163	242	252	399			3151	3172
		463	499	548	549			3262	3288
		696	735	736	748			5057	5068
		749	1169	1238	1247			5166	5271
		1267	1268	1413	1718			5676	5934
		1842	1977	2001	2037	DpnII	(34)	6572	6796
		2094	2154	2250	2286			93	459
		2355	2481	2516	2902			1363	1647
		3552	3631	3641	3788			1914	2310
		3851	4153	4574	6648			3149	3170
		6726	6732					3260	3286
BsaW I	(3)	4620	4767	5598				5055	5066
BseR I	(7)	466	1295	1334	1828			5164	5269
		1830	2152	3854				5674	5932
Bsg I	(2)	1602	2411					6570	6794
BsiE I	(10)	594	729	1534	1650	Dra I	(4)	2525	5173
		3276	4330	4754	5677	Drd I	(4)	1502	2357
		5826	6573			Dsa I	(6)	696	1413
BsiHKA I	(7)	340	3110	3729	4732			2902	6732
		5893	5978	6475		Eae I	(15)	584	726
BsmA I	(23)	108	477	533	611			1416	1531
		736	834	951	1075			2376	3273
		1134	1152	1330	1433			5695	6729
		2975	3221	3374	3497	Eag I	(3)	726	1531
		3844	3865	5369	6143	Ear I	(6)	1072	1313
		6296	6340	7012				6102	6590
BsmB I	(8)	735	833	1074	1133	Eco47 III	(2)	925	6768
		1331	3220	6297	6339	Eco57 I	(8)	1511	1987
BsmF I	(15)	174	187	566	731			2350	4961
		766	1207	1587	1999	EcoN I	(2)	786	1394
		2018	2717	2868	3036	EcoO109 I	(6)	256	1221
		3563	3576	6708				6283	6737
BsoF I	(47)	729	903	919	922	EcoR I	(2)	1406	3332
		927	930	1135	1515	EcoR II	(22)	241	548
		1534	1608	1611	1614			241	548
		1617	1620	1784	1822			1169	1194
		1936	1984	2137	2201			1267	1717
		2206	2341	2393	2396			2630	2823
		2488	3273	3276	3309			4152	4440
		4239	4320	4338	4341			6647	6924
		4459	4614	4757	4822	EcoR V	(3)	141	3530
		4825	5031	5359	5698	Ehe I	(8)	1401	2296
		5725	5820	6049	6336			6531	6714
		6445	6549	6622				729	903
								927	930
Bsp120 I	(1)	3298						1534	1608
BspH I	(4)	5134	6142	6247	6771			1617	1620
Bsr I	(18)	376	1032	1060	1548			1936	1984
		1572	2027	2838	3765			2206	2341
		4215	4821	4834	4948			2488	3273
		5354	5472	5515	5782			4239	4320
		5954	6660					4459	4614
BsrB I	(5)	1044	2275	4106	4347			4825	5031
		6148						5725	5820
BsrD I	(2)	5368	5542					6445	6549
BsrG I	(1)	1284				Fok I	(15)	425	1142
BssH II	(5)	319	370	2476	3708			1701	1994
		3759						3219	3813
BssS I	(5)	1589	1904	4587	5971			5741	6384
		6278				Fsp I	(3)	1880	5529
BstE II	(3)	1089	1972	2143		Gdi II	(14)	725	727
BstN I	(22)	243	550	737	750			1532	1901
		1171	1196	1219	1239			3274	3310
		1269	1719	2002	2156			6730	6862
		2632	2825	3223	3632	Gsu I	(4)	3243	3358
		4154	4442	4563	4576	Hae I	(10)	586	1113
		6649	6926					2042	2264
BstU I	(27)	319	321	372	905			4440	4892
		907	1137	1646	2115	Hae II	(12)	927	1403
		2205	2478	2518	2602			2505	4292
		3278	3294	3708	3710			6716	6770
		3761	4261	4263	4461			130	175
		5042	5372	5865	6197			764	776
		6297	6299	6402				1134	1199
BstX I	(1)	2374						1835	1902
BstY I	(12)	2510	3128	3149	3170			2042	2229
		3260	3286	5055	5066			2378	2487
		5152	5164	5932	5949			3275	3300
Bsu36 I	(3)	783	1020	2506				3564	4255
Cac8 I	(35)	28	32	321	372			4458	4892
								5697	6284

		6739	6863				2476	3083	3259	3298
Hga I	(14)	383	644	897	1493		3607	3759	3778	3823
		2359	3067	3236	3268		3850	3874	3934	4263
		3772	4524	5102	5834		4312	4522	4595	4846
		6392	6861				5246	5327	5473	5679
HgiA I	(7)	340	3110	3729	4732		6274	6332	6592	6876
		5893	5978	6475		Msc I	(4)	586	1113	1418
HgiE II	(2)	4993	6473			Mse I	(26)	36	1009	1121
Hha I	(45)	321	323	372	374		1175	2524	2549	3338
		650	907	926	1402		3342	3425	3959	4057
		1514	1869	1881	2115		4185	4244	5120	5172
		2205	2297	2405	2478		5177	5191	5244	5479
		2480	2504	3710	3712		5518	5883	6255	6436
		3761	3763	4038	4198		6633	6903		
		4263	4291	4324	4594	Msl I	(3)	2907	5559	5718
		4661	4761	4935	5044	Msp I	(27)	165	400	571
		5437	5530	5867	6199		725	1403	2400	2499
		6299	6402	6532	6553		3302	3554	3789	4132
		6686	6715	6769	6829		4621	4768	4794	4984
		6850					5388	5422	5489	5599
HinC II	(1)	3282					5841	6342	6376	6728
Hind II	(1)	3282					6851	6860	6875	
HinD III	(1)	3266				MspAl I	(12)	590	1622	2395
Hinf I	(17)	444	452	793	804		3890	4238	4756	5001
		1439	1771	2159	2952		5942	6408	6602	6958
		3949	3971	3992	4249	Nae I	(2)	633	6861	
		4314	4389	4785	5302	Nar I	(8)	1400	2295	2403
		6940					6530	6713	6827	6848
HinI I	(18)	744	1400	1848	2295	Nci I	(16)	165	400	401
		2352	2403	2502	2664		725	2400	3302	3554
		2717	2800	2986	3229		3789	3790	4794	5490
		5844	6226	6530	6713		5841	6342	6377	6728
		6827	6848			Nco I	(3)	1413	2250	2902
HinP I	(45)	319	321	370	372	Nde I	(2)	2776	6478	
		648	905	924	1400	Ngom I	(2)	631	6859	
		1512	1867	1879	2113	Nhe I	(2)	30	3419	
		2203	2295	2403	2476	Nla III	(23)	62	1207	1417
		2478	2502	3708	3710		1885	2254	2377	2846
		3759	3761	4036	4196		2906	3451	3905	4072
		4261	4289	4322	4592		4418	5138	5629	5639
		4659	4759	4933	5042		5717	5753	6146	6251
		5435	5528	5865	6197		6335	6702	6775	
		6297	6400	6530	6551	Nla IV	(43)	190	203	248
		6684	6713	6767	6827		523	554	694	763
		6848					895	1146	1223	1401
Hpa II	(27)	165	400	571	632		1575	1691	1891	1951
		725	1403	2400	2499		1987	2035	2209	2230
		3302	3554	3789	4132		2296	2404	2503	3009
		4621	4768	4794	4984		3288	3300	3579	3592
		5388	5422	5489	5599		3637	3794	4160	4446
		5841	6342	6376	6728		4485	5257	5351	5392
		6851	6860	6875			5603	6193	6531	6714
Hph I	(20)	1159	1185	1403	1983		6738	6828	6849	
		2154	2205	2426	2917	Not I	(1)	3273		
		3311	3317	5151	5378	Nru I	(1)	1646		
		5792	6000	6033	6317	Nsp7524 I	(3)	4414	6331	6698
		6326	6819	6864	6945	NspB II	(12)	590	1622	2395
Kas I	(8)	1399	2294	2402	2501		3890	4238	4756	5001
		6529	6712	6826	6847		5942	6408	6602	6958
Kpn I	(2)	407	3796			NspH I	(3)	4418	6335	6702
Mae I	(14)	31	221	663	675	Pac I	(1)	3342		
		1396	1524	1812	2542	Pal I	(42)	130	175	586
		3420	3610	4909	5162		764	776	989	1113
		5497	6932				1134	1199	1418	1533
Mae II	(16)	744	1083	1124	1848		1835	1902	1935	1986
		2046	2664	2676	2717		2042	2229	2264	2343
		2800	2881	2986	5117		2378	2487	2626	2819
		5533	5906	6226	6668		3275	3300	3311	3519
Mae III	(24)	39	996	1024	1089		3564	4255	4429	4440
		1233	1972	2143	2149		4458	4892	5350	5430
		2603	2690	3039	3428		5697	6284	6582	6731
		3906	4770	4833	4949		6739	6863		
		5232	5563	5621	5774	Pflm I	(1)	2256		
		5962	6350	6641	6661	Ple I	(3)	801	3957	4793
Mbo I	(34)	93	459	1046	1178	Pme I	(1)	2525		
		1363	1647	1708	1722	PpuM I	(4)	256	1221	1574
		1914	2310	2510	3128	Psp1406 I	(2)	5533	5906	3645
		3149	3170	3191	3216	PspA I	(2)	399	3788	
		3260	3286	3482	4980	Pst I	(4)	923	931	1107
		5055	5066	5074	5152	Pvu I	(3)	1650	5677	6573
		5164	5269	5610	5628	Pvu II	(5)	1622	2395	4238
		5674	5932	5949	5985		6958			6602
		6570	6794			Rsa I	(16)	405	661	1286
Mbo II	(17)	1088	1301	1447	1504		2282	2471	2761	2786
		1532	2253	2256	3269		2841	2874	2925	3082
		4052	4286	5075	5148		3794	5787	6463	6974
		5903	5981	6090	6578		340	3110	3729	
		6790				Sac I	(3)			
						Sac II	(1)	2519		
Mlu I	(1)	3292				Sal I	(1)	3280		
Mme I	(7)	831	1108	2246	3853	Sap I	(2)	4036	4298	
		3905	4628	4812		Sau3A I	(34)	93	459	1046
Mnl I	(72)	218	370	389	434		1363	1647	1708	1722
		462	486	508	512		1914	2310	2510	3128
		568	778	874	1170		3149	3170	3191	3216
		1273	1306	1312	1315		3260	3286	3482	4980
		1321	1351	1354	1369		5055	5066	5074	5152
		1376	1392	1456	1797		5164	5269	5610	5628
		1798	1808	1811	1820		5674	5932	5949	5985
		1837	1845	1848	1879		6570	6794		
		1912	1918	1924	1939		128	173	188	201
		2027	2089	2122	2172	Sau96 I	(34)	256	553	692
		2229	2254	2274	2281		775	987	1198	1221
		2313	2350	2440	2445		1574	1933	1985	2228

		2485	2625	2818	3298	Bfa I	C`TA,G	14	Bgl I	GCCN,NNN`NGGC	5
		3299	3517	3562	3577	Bgl II	A`GATC,T	4	Blp I	GC`TNA,GC	-
		3590	3645	5349	5428	Bpm I	CTGGAG 22/20	4	Bsa I	GGTCTC 7/11	6
		5445	5667	6283	6580	BsaA I	YAC GTR	2	BsaB I	GATNN NNATC	5
Sca I	(1)	6737	6922			BsaH I	GR`CG,YC	18	BsaJ I	C`CNNG,G	42
ScrF I	(38)	5787				BsaW I	W`CCGG,W	3	BseR I	GAGGAG 16/14	7
		165	243	400	401	Bsg I	GTGCAG 22/20	2	BsiC I	TT`CG,AA	-
		550	572	725	737	BsiE I	CG,R`Y`CG	10	BsiHKA I	G,WGCW`C	7
		750	1171	1196	1219	BsiW I	C`GTAC,G	-	Bsm I	GAATG,C 7	-
		1239	1269	1719	2002	BsmA I	CTCTC`/9	23	BsmB I	CGTCTC 7/11	8
		2156	2400	2632	2825	BsmF I	GGGAC 15/19	15	BsoF I	GC`N,GC	47
		3223	3302	3554	3632	Bsp120 I	G`GGCC,C	1	Bsp1286 I	G,DGCH`C	-
		3789	3790	4154	4442	BspH I	T`CATG,A	4	BspM I	ACCTGC 10/14	-
		4563	4576	4794	5490	BspM II	T`CCGG,A	-	Bsr I	ACT,GG`	18
		5841	6342	6377	6649	BsrB I	GAG CGG	5	BsrD I	GCAATG, 8	2
Sec I	(42)	6728	6926			BsrG I	T`GTAC,A	1	Bssh II	G`CGCG,C	5
		163	242	252	399	BssS I	C`TCGT,G	5	Bst1107 I	GTA TAC	-
		463	499	548	549	BstB I	TT`CG,AA	-	BstE II	G`GTNAC,C	3
		696	735	736	748	BstN I	CC`W,GG	22	BstU I	CG CG	27
		749	1169	1238	1247	BstX I	CCAN,NNNN`NTGG	1	Bsty I	R`GATC,Y	12
		1267	1268	1413	1718	Bsu36 I	CC`TNA,GG	3	Cac8 I	GCN NGC	35
		1842	1977	2001	2037	Cfr10 I	R`CCGG,Y	5	ClA I	AT`CG,AT	-
		2094	2154	2250	2286	Csp6 I	G`TA,C	16	Dde I	C`TNA,G	21
		2355	2481	2516	2902	Dpn I	GA TC	34	DpnII	`GATC,	34
		3552	3631	3641	3788	Dra I	TTT AAA	4	Dra III	CAC,NNN`GTG	-
		3851	4153	4574	6648	Drd I	GACNN,NN`NNGTC	4	Dsa I	C`CRYG,G	6
SfaN I	(21)	6726	6732			Eae I	Y`GGCC,R	15	Eag I	C`GGCC,G	3
		187	446	643	940	Ear I	CTCTTC 7/10	6	Eco47 III	AGC GCT	2
		1487	1544	1676	1722	Eco57 I	CTGAAG 21/19	8	Eco72 I	CAC GTG	-
		2900	3576	3834	4510	EcoN I	CCTNN`N,NNAGG	2	EcoO109 I	RG`GNC,CY	6
		5562	5755	6002	6363	EcoR I	G`AATT,C	2	EcoR II	`CCWGG,	22
		6455	6493	6531	6847	EcoR V	GAT ATC	3	Ehe I	GGC GCC	8
Sfc I	(11)	6859				Esp I	GC`TNA,GC	-	Fnu4H I	GC`N,GC	47
		15	919	927	1103	Fok I	GGATG 14/18	15	Fse I	GG,CCGG`CC	-
		1498	2168	3404	4679	Fsp I	TGC GCA	3	Gdi II	`YGGC,CG	14
		4870	5548	6966		Gsu I	CTGGAG 21/19	4	Hae I	WGG CCW	10
Sma I	(2)	401	3790			Hae II	R,CGCG`Y	12	Hae III	GG CC	42
SnaB I	(1)	2882				Hga I	GACGC 9/14	14	Hgia I	G,WGCW`C	7
Spe I	(2)	662	2541			HgiE II	ACCNNNNNNGGT -1/132	1	Hha I	G,CG`C	45
Sph I	(1)	6702				Hinc II	GTY RAC	1	Hind II	GTY RAC	1
Ssp I	(2)	3957	6111			Hind III	A`AGCT,T	1	Hinf I	G`ANT,C	17
Stu I	(2)	2042	2264			HinI I	GR`CG,YC	18	HinP I	G`CG,C	45
Sty I	(10)	252	463	1247	1413	Hpa I	GTT AAC	-	Hpa II	C`CG,G	27
		1977	2037	2250	2902	Hph I	GGTGA 12/11	20	Kas I	G`GGCC,C	8
Taq I	(13)	3641	3851			Kpn I	G,GTAC`C	2	Mae I	C`TA,G	14
		796	1040	1351	1362	Mae II	A`CG,T	16	Mae III	`GTNAC,	24
		1707	1911	1917	2127	Mbo I	`GATC,	34	Mbo II	GAAGA 12/11	17
		3194	3281	3952	4514	Mlu I	A`CGCG,T	1	Mme I	TCCRCR 25/23	7
		5958				Mnl I	CCTC 10/10	72	Msc I	TGG CCA	4
Tfi I	(7)	444	804	1439	1771	Mse I	T`TA,A	26	Msl I	CAYNN NNRTG	3
		3992	4249	4389		Msp I	C`CG,G	27	MspA1 I	CMG CKG	12
Tsp45 I	(9)	1024	1233	1972	2143	Mun I	C`AATT,G	-	Nae I	GCC GGC	2
		2149	5563	5774	6350	Nar I	GG`CG,CC	8	Nci I	CC`S,GG	16
		6661				Nco I	C`CATG,G	3	Nde I	CA`TA,TG	2
Tth111 I	(4)	392	813	1219	3781	NgoM I	G`CCGG,C	2	Nhe I	G`CTAG,C	2
Tth111 II	(8)	147	424	615	634	Nla III	,CATG`	23	Nla IV	GGN NCC	43
		3536	5003	5012	5042	Not I	GC`GGCC,GC	1	Nru I	TCG CGA	1
Vsp I	(5)	2549	4057	4185	4244	Nsi I	A,TGCA`T	-	Nsp7524 I	R`CATG,Y	3
		5479				NspB II	CMG CKG	12	NspH I	R,CATG`Y	3
Xba I	(3)	220	1811	3609		Pac I	TTA,AT`TAA	1	Paer7 I	C`TCGA,G	-
Xho II	(12)	2510	3128	3149	3170	Pal I	GG CC	42	PflM I	CCAN,NNN`NTGG	1
		3260	3286	5055	5066	Ple I	GAGTC 9/10	3	Pme I	CTTT AAAC	1
		5152	5164	5932	5949	Pml I	CAC GTG	-	PpuM I	RG`GWC,CY	4
Xma I	(2)	399	3788			Psp1406 I	AA`CG,TT	2	PspA I	C`CCGG,G	2
Xma III	(3)	726	1531	3273		Pst I	C,TGCA`G	4	Pvu I	CG,AT`CG	3
Xmn I	(3)	4020	4058	5906		Pvu II	CAG CTG	5	Rsa I	GT AC	16
						Rsr II	CG`GWC,CG	-	Sac I	G,AGCT`C	3
						Sac II	CC,GC`GG	1	Sal I	G`TCGA,C	1
						Sap I	GCCTCTC 8/11	2	Sau3A I	`GATC,	34
						Sau96 I	G`GNC,C	34	Sca I	AGT ACT	1
						ScrF I	CC`N,GG	38	Sec I	C`CNNG,G	42
						SfaN I	GCATC 9/13	21	Sfc I	C`TRYA,G	11
						Sfi I	GGCCN,NNN`NGGCC	-	Sma I	CCC GGG	2
						SnaB I	TAC GTA	1	Spe I	A`CTAG,T	2
						Sph I	G,CATG`C	1	Spl I	C`GTAC,G	-
						Srf I	GCCC GGGC	-	Ssp I	AAT ATT	2
						Stu I	AGG CCT	2	Sty I	C`CWVG,G	10
						Taq I	T`CG,A	13	Tfi I	G`AWT,C	7
						Tsp45 I	`GTSAC,	9	Tth111 I	GACN`N,NGTC	4
						Tth111 II	CAARCA 16/14	8	Vsp I	AT`TA,AT	5
						Xba I	T`CTAG,A	3	Xca I	GTA TAC	-
						Xcm I	CCANNNN,N`NNNNTGG-	-	Xho I	C`TCGA,G	-
						Xho II	R`GATC,Y	12	Xma I	C`CCGG,C	2
						Xma III	C`GGCC,G	3	Xmn I	GAANN NNTTC	3

Site usage in pSCV-TOHis:

Aat II	G,ACGT`C	7	Acc I	GT`MK,AC	1
Acc65 I	G`GTAC,C	2	Aci I	C`CG,C	80
Afl II	C`TTAA,G	3	Afl III	A`CRYG,T	2
Age I	A`CCGG,T	-	Aha II	GR`CG,YC	18
Ahd I	GACNN,N`NNGTC	5	Alu I	AG CT	36
Alw I	GGATC 8/9	15	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	7	Ava II	G`GWC,C	13
Avr II	C`CTAG,G	-	BamH I	G`GATC,C	1
Ban I	G`GYRC,C	18	Ban II	G,RGCY`C	11
Bbe I	G,CGCC`C	8	Bbs I	GAAGAC 8/12	2
Bbv I	GCAAGC 13/17	10	Bbv II	GAAGAC 7/11	2
Bcl I	T`GATC,A	-	Bcn I	CC,S`GG	16