

brought to you by www.thebacteriophages.org & www.phage.org**Table 39-2. Frequencies of recognition sites in ϕ C31 and ϕ BT1 for *Streptomyces* and *Saccharopolyspora* restriction endonucleases.**

Enzyme ¹	Source	Isoschizomers from other <i>Streptomyces</i> sp.	ϕ C31	ϕ BT1	Recognition site	Expected
<i>Sac</i> AI	<i>S. achromogenes</i> ATCC 21353	6	2	206	GCCGGC	43
<i>Sac</i> I	<i>S. achromogenes</i> ATCC 12767	1	0	0	GAGCTC	14
<i>Sac</i> II	<i>S. achromogenes</i> ATCC 12767	15	2	0	CCGCGG	43
<i>Sac</i> NI	<i>S. achromogenes</i> N-J-H		159	35	GRGICYC	106
<i>Sal</i> AI	<i>S. albus</i> ATCC 21725	1	128	389	GATC	139
<i>Sal</i> DI	<i>S. albus</i> ATCC 21132		28	11	TCGCGA	14
<i>Sal</i> GI	<i>S. albus</i> G ATCC 29789		48	28	GTCGAC	14
<i>Sal</i> PI	<i>S. albus</i> P CMI52766	5	0	0	CTGCAG	14
<i>San</i> DI	<i>Streptomyces</i> sp.	1	8	11	GGGWCCC	16
<i>Sap</i> I	<i>Saccharopolyspora</i> sp. NEB 597		38	42	GCTCTTC	2.6
<i>Sau</i> HI	<i>S. aureofaciens</i> 13		0	0	CCTNAGG	14
<i>Sbf</i> I	<i>Streptomyces</i> sp. Bf-61	2	0	0	CCTGCAGG	1.4
<i>Sca</i> I	<i>S. caespitosus</i>		0	0	AGTACT	4.6
<i>Sco</i> I	<i>S. coelicolor</i> ATCC 10147		0	0	GAGCTC	14
<i>Sex</i> AI	<i>S. exfoliates</i>		1	1	ACCWGGT	5.1
<i>Sfi</i> I	<i>S. fimbriatus</i> ATCC 15051		0	1	GGCCNNNNN GGCC	4.3
<i>Sfr</i> 274I	<i>S. fradiae</i> 274	22	0	0	CTCGAG	14
<i>Sfu</i> I	<i>S. fulvissimus</i>	10	15	21	TTCGAA	4.6
<i>Sgf</i> I	<i>S. griseoruber</i>		0	0	GCGATCGC	1.4
<i>Sgh</i> 1835I	<i>S. ghanaensis</i> 1835		94	84	GGWCC	154
<i>Sgr</i> 20I	<i>S. griseus</i> K20	1	108	115	CCWGG	154
<i>Sgr</i> AI	<i>S. griseus</i>		2	3	CRCCGGYG	10.7
<i>Slb</i> I	<i>S. albidoflavus</i> Viikki 329		2	7	GGTCTC	14
<i>Sno</i> I	<i>S. novocastria</i>		9	12	GTGCAC	14
<i>Sol</i> 3335I	<i>S. olivaceus</i> IMRU3335		0	0	CAGCTG	14
<i>Sph</i> I	<i>S. phaeochromogenes</i> NRRL B-3559	1	8	10	GCATGC	14
<i>Spv</i> I	<i>S. parvus</i> NRRL B-1255		0	0	GGATCC	14
<i>Srf</i> I	<i>Streptomyces</i> sp.		0	0	GCCCCGGGC	4.3
<i>Ssb</i> I	<i>S. scabies</i>		17	19	AAGCTT	4.6
<i>Sse</i> 232I	<i>Streptomyces</i> sp. RH232		0	3	CGCCGGCG	4.3
<i>Sse</i> 8647I	<i>Streptomyces</i> sp. 8647		1	2	AGGWCCT	5.1
<i>Sse</i> AI	<i>Streptomyces</i> sp.		64	58	GGCGCC	43
<i>Ssp</i> 2I	<i>Streptomyces</i> sp. RFL2		259	239	CCSGG	270
<i>Ssp</i> 5230I	<i>Streptomyces</i> sp. 5230		53	52	GACGTC	14
<i>Ssp</i> BI	<i>Streptomyces</i> sp.	1	7	4	TGTACA	4.6
<i>Sst</i> IV	<i>S. stanford</i>		19	14	TGATCA	4.6
<i>Stu</i> I	<i>S. tubercidicus</i>	4	0	0	AGGCCT	14

¹ Information on restriction endonucleases from *Streptomyces* sp. is from <http://rebase.neb.com/rebase/>.