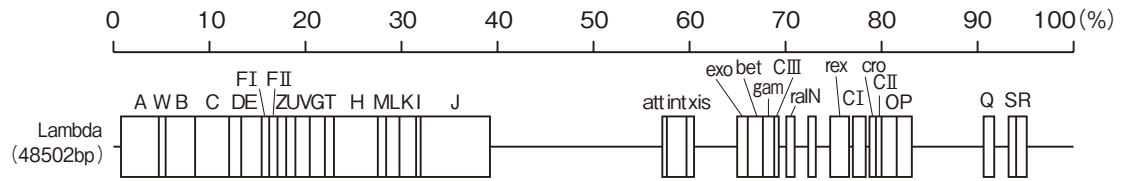


## 8) Lambda DNA



酵素名	切断数	切断箇所
Acc I	9	
Ava I	8	
Apa I	1	
Bal I	18	
BamH I	5	
Bgl II	6	
BssH II	6	
BstE II	13	
Dra I	13	
EcoO109 I	3	
EcoR I	5	
EcoT38 I	7	
Hpa I	14	
Hind III	7	
Kpn I	2	
Mlu I	7	
Nar I	1	
Nco I	4	
Nde I	7	
Nhe I	1	
Nru I	5	
Nsi I	14	
Pvu II	15	
Sac I	2	
Sac II	2	
Sal I	4	
Sca I	5	
Sma I	3	
Sph I	6	
Ssp I	20	
Stu I	6	
Sty I	10	
Xba I	1	
Xho I	1	

### 文 献

Sanger, F., Coulson, A. R., Hong, G. F., Hill, D. F. and Petersen, G.B. : *J. Mol. Biol.*, **162**, 729(1982)

Lambda DNA の切断数と切断部位

制限酵素	切断数	位 置					制限酵素	切断数	位 置				
<i>Apa</i> I	1	10,086					<i>Cla</i> I	15	4,198	15,583	16,120	26,616	30,289
<i>Nar</i> I	1	45,679							31,990	32,963	33,584	34,696	35,050
<i>Nhe</i> I	1	34,679							36,965	41,363	42,020	43,824	46,438
<i>Xba</i> I	1	24,508					<i>Fsp</i> I	15	463	2,503	4,270	5,155	6,979
<i>Xho</i> I	1	33,498							11,563	11,690	13,355	16,046	21,805
<i>Nae</i> I	1	20,040							21,826	27,949	32,683	34,821	42,380
							<i>Pvu</i> II	15	209	1,917	2,385	2,526	3,058
<i>Axy</i> I	2	26,717	34,318						3,637	7,831	12,099	12,162	16,078
<i>Kpn</i> I	2	17,053	18,556						19,716	20,059	20,695	22,991	27,412
<i>Pme</i> I	2	8,459	16,293										
<i>Sac</i> I	2	24,772	25,877				<i>Ase</i> I	17	3,418	19,481	23,083	23,692	24,986
<i>Sal</i> I	2	32,745	33,244						26,762	27,202	30,619	33,221	33,735
<i>Tth</i> 111 I	2	11,202	36,120						33,800	34,686	36,274	43,409	46,407
									46,852	48,377			
<i>Afl</i> II	3	6,540	12,618	42,630			<i>Bal</i> I	18	1,326	2,206	3,260	4,193	6,496
<i>Eco</i> O109 I	3	2,815	28,797	48,473					6,877	7,584	7,978	8,056	8,859
<i>Pvu</i> I	3	11,933	26,254	35,787					10,609	10,777	13,934	14,903	21,260
<i>Sma</i> I	3	19,397	31,617	39,888					26,623	28,618	36,040		
							<i>Ssp</i> I	20	8,469	24,075	24,746	25,257	25,624
<i>Alw</i> 44 I	4	5,619	21,798	27,173	40,216				26,313	29,154	29,364	29,514	33,570
<i>Nco</i> I	4	19,329	23,901	27,868	44,248				35,001	38,974	41,905	42,825	43,263
<i>Sac</i> II	4	20,320	20,530	21,606	40,386				46,845	47,321	47,421	47,556	47,693
							<i>Eco</i> R V	21	650	2,084	6,681	8,084	8,822
<i>Bam</i> H I	5	5,505	22,346	27,972	34,499	41,732			13,435	14,023	17,767	18,385	21,269
<i>Eco</i> R I	5	21,226	26,104	31,747	39,168	44,972			22,948	26,821	28,198	28,211	33,587
<i>Nru</i> I	5	4,590	28,050	31,703	32,407	41,808			39,352	41,273	41,541	41,576	42,231
<i>Sca</i> I	5	16,421	18,684	25,685	27,263	32,802			45,826				
							<i>Acc</i> III	24	610	1,826	2,619	3,329	3,341
<i>Bgl</i> II	6	415	22,425	35,711	38,103	38,754			5,098	6,894	7,811	9,696	10,318
		38,814							11,986	13,086	13,806	16,040	17,630
<i>Bss</i> H II	6	3,522	4,126	5,627	14,815	16,649			19,775	22,343	24,842	25,613	30,842
		28,008							31,814	31,888	35,449	40,001	
<i>Sph</i> I	6	2,212	12,002	23,942	24,371	27,374							
<i>Stu</i> I	6	12,434	31,478	32,997	39,992	40,596							
		40,614					<i>Ban</i> I	25	1,180	1,365	2,331	5,407	5,665
<i>Eco</i> T38 I	7	581	10,086	19,763	21,570	24,772			5,671	5,900	8,036	8,043	8,441
		25,877	39,453						8,764	8,988	10,221	13,038	13,642
<i>Hind</i> III	7	23,130	25,157	27,479	36,895	37,459			14,623	15,199	15,237	16,236	17,053
		37,584	44,141						18,556	21,545	39,907	42,797	45,679
<i>Mlu</i> I	7	458	5,548	15,372	17,791	19,996							
		20,952	22,220				<i>Pst</i> I	28	2,556	2,820	3,625	3,640	3,856
<i>Nde</i> I	7	27,630	29,883	33,679	36,112	36,668			4,370	4,709	4,909	5,120	5,214
		38,357	40,131						5,682	8,520	9,613	9,777	11,763
<i>Nsp</i> V	7	18,048	25,884	27,980	29,150	30,396			11,835	14,294	14,381	16,081	16,231
		34,331	42,637						17,390	19,833	20,281	22,421	26,928
<i>Ava</i> I	8	4,720	19,397	20,999	27,887	31,617			32,005	32,252	37,001		
		33,498	38,214	39,888			<i>Bgl</i> I	29	404	2,660	3,798	4,360	4,451
<i>Bcl</i> I	8	8,844	9,361	13,820	32,729	37,352			4,577	5,246	5,432	6,053	6,104
		43,682	46,366	47,942					7,550	8,049	11,058	12,708	12,717
<i>Acc</i> I	9	2,190	15,260	18,834	19,473	31,301			12,832	13,198	14,401	14,890	15,157
		32,745	33,244	40,201	42,921				17,638	18,085	19,334	20,124	20,250
<i>Aat</i> II	10	5,105	9,394	11,243	14,974	29,036			20,460	21,233	30,882	32,323	
		40,806	41,113	42,247	45,563	45,592							
<i>Dra</i> III	10	2,954	5,613	6,635	8,999	14,477							
		30,365	31,909	41,479	47,312	48,434							
<i>Sty</i> I	10	19,329	21,211	23,901	24,322	24,396							
		27,868	28,793	35,016	36,505	44,248							
<i>Age</i> I	13	4,730	4,879	6,561	10,550	10,935							
		16,975	19,112	19,291	19,623	19,694							
		22,078	31,825	40,452									
<i>Bst</i> E II	13	5,687	7,058	8,322	9,024	13,348							
		13,572	13,689	16,012	17,941	25,183							
		30,005	36,374	40,049									
<i>Bst</i> X I	13	2,855	6,706	8,413	8,850	10,915							
		13,263	14,338	18,029	19,741	21,622							
		34,596	38,292	46,434									
<i>Dra</i> I	13	90	8,460	16,294	23,110	23,284							
		25,436	26,132	26,665	32,703	36,302							
		36,530	38,833	47,429									
<i>Hpa</i> I	14	732	5,267	5,708	7,948	8,199							
		11,583	14,991	21,902	27,316	31,807							
		32,217	35,259	39,606	39,834								
<i>Nsi</i> I	14	10,325	27,206	27,372	28,432	30,342							
		30,989	32,967	33,682	34,208	35,868							
		36,665	36,671	37,769	38,307								

λ DNA に認識塩基配列のない制限酵素  
*Not* I *Sfi* I *Spe* I