pBR322 DNAの切断フラグメントの塩基数と切断部位

切断数：酵素名の下に記入

Enzyme	Fragment Size	Locations
*Aat*Ⅱ	4,361	(4,289-4,288)
1		
*Acc*Ⅲ	4,361	(1,665-1,664)
1		
Ase Ⅰ	4,361	(3,539-3,538)
1		
Ava Ⅰ	4,361	(1,426-1,425)
1		
Bal Ⅰ	4,361	(1,447-1,446)
1		
Bam H Ⅰ	4,361	(376- 375)
1		
Bsm Ⅰ	4,361	(1,360-1,359)
1		
Cla Ⅰ	4,361	(25- 24)
1		
*Eco*R Ⅰ	4,361	(4,360-4,359)
1		
*Eco*R Ⅴ	4,361	(188- 187)
1		
*Hind*Ⅲ	4,361	(30- 29)
1		
Nde Ⅰ	4,361	(2,297-2,296)
1		
Nhe Ⅰ	4,361	(230- 229)
1		
Nru Ⅰ	4,361	(975- 974)
1		
Pst Ⅰ	4,361	(3,612-3,611)
1		
Pvu Ⅰ	4,361	(3,737-3,736)
1		
*Pvu*Ⅱ	4,361	(2,067-2,066)
1		
Sal Ⅰ	4,361	(652- 651)
1		
Sca Ⅰ	4,361	(3,847-3,846)
1		
Sph Ⅰ	4,361	(567- 566)
1		
Ssp Ⅰ	4,361	(4,171-4,170)
1		
Sty Ⅰ	4,361	(1,370-1,369)
1		
*Tth*111 Ⅰ	4,361	(2,221-2,220)
1		
Acc Ⅰ	2,768	(2,246- 652)
2	1,593	(653-2,245)
*Eco*T38 Ⅰ	4,347	(490- 475)
2	14	(476- 489)
*Hinc*Ⅱ	3,254	(654-3,907)
2	1,107	(3,908- 653)
*Alw*44 Ⅰ	2,617	(4,034-2,289)
3	1,246	(2,788-4,033)
	498	(2,290-2,787)
Bgl Ⅰ	2,317	(1,170-3,486)
3	1,810	(3,487- 935)
	234	(936-1,169)
Dra Ⅰ	3,650	(3,944-3,232)
3	692	(3,252-3,943)
	19	(3,233-3,251)
Rsa Ⅰ	2,116	(166-2,281)
3	1,565	(2,282-3,846)
	680	(3,847- 165)
*Eco*O109 Ⅰ	2,861	(1,482-4,342)
4	915	(525-1,439)
	543	(4,343- 524)
	42	(1,440-1,481)
Fsp Ⅰ	2,132	(1,457-3,588)
4	1,096	(263-1,358)
	1,035	(3,589- 262)
	98	(1,359-1,456)
Nae Ⅰ	3,479	(1,286- 403)
4	368	(404- 771)
	354	(932-1,285)
	160	(772- 931)
Nar Ⅰ	3,569	(1,207- 414)
4	657	(550-1,206)
	114	(436- 549)
	21	(415- 435)
Acy Ⅰ	2,697	(1,207-3,903)
6	657	(550-1,206)
	490	(4,286- 414)
	382	(3,904-4,285)
	114	(436- 549)
	21	(415- 435)
*Eco*R Ⅱ	1,857	(2,634- 129)
6	1,058	(1,442-2,499)
	929	(130-1,058)
	383	(1,059-1,441)
	121	(2,500-2,620)
	13	(2,621-2,633)
Taq Ⅰ	1,444	(2,574-4,017)
7	1,305	(1,269-2,573)
	475	(653-1,127)
	368	(4,018- 24)
	315	(25- 339)
	313	(340- 652)
	141	(1,128-1,268)
*Ava*Ⅱ	1,744	(1,761-3,504)
8	1,434	(3,727- 799)
	303	(1,137-1,439)
	279	(1,482-1,760)
	249	(888-1,136)
	222	(3,505-3,726)
	88	(800- 887)
	42	(1,440-1,481)
Dde Ⅰ	1,653	(4,290-1,581)
8	540	(3,324-3,863)
	540	(1,744-2,283)
	465	(2,284-2,748)
	426	(3,864-4,289)
	409	(2,749-3,157)
	166	(3,158-3,323)
	162	(1,582-1,743)
Ban Ⅰ	2,025	(1,290-3,314)
9	1,123	(3,315- 76)
	439	(767-1,205)
	294	(120- 413)
	218	(549- 766)
	114	(435- 548)
	84	(1,206-1,289)
	43	(77- 119)
	21	(414- 434)
*Bsp*1286 Ⅰ	1,161	(2,792-3,952)
10	824	(1,470-2,293)
	604	(4,038- 280)
	587	(592-1,178)
	498	(2,294-2,791)
	291	(1,179-1,469)
	195	(281- 475)
	102	(490- 591)
	85	(3,953-4,037)
	14	(476- 489)
*Hin*f Ⅰ	1,632	(3,362- 632)
10	517	(2,845-3,361)
	504	(1,526-2,029)
	396	(2,449-2,844)
	344	(2,030-2,373)
	298	(1,007-1,304)
	221	(1,305-1,525)
	220	(633- 852)
	154	(853-1,006)
	75	(2,374-2,448)
Nci Ⅰ	724	(536-1,259)
10	699	(2,155-2,853)
	696	(2,854-3,549)
	632	(3,901- 171)
	364	(172- 535)
	351	(3,550-3,900)
	328	(1,486-1,813)
	306	(1,814-2,119)
	226	(1,260-1,485)
	35	(2,120-2,154)
*Hae*Ⅱ	1,876	(2,722- 236)
11	620	(1,732-2,351)
	439	(1,210-1,648)
	430	(780-1,209)
	370	(2,352-2,721)
	227	(553- 779)
	181	(237- 417)
	83	(1,649-1,731)
	60	(439- 498)
	54	(499- 552)
	21	(418- 438)
*Mbo*Ⅱ	791	(2,345-3,135)
11	755	(3,207-3,961)
	751	(1,594-2,344)
	592	(1,002-1,593)
	493	(4,345- 476)
	271	(731-1,001)
	254	(477- 730)
	196	(4,149-4,344)
	109	(4,040-4,148)
	78	(3,962-4,039)
	71	(3,136-3,206)
Fok Ⅰ	1,171	(2,162-3,332)
12	854	(147-1,000)
	659	(3,801- 98)
	649	(1,046-1,694)
	287	(3,514-3,800)
	186	(1,835-2,020)
	181	(3,333-3,513)
	141	(2,021-2,161)
	78	(1,757-1,834)
	62	(1,695-1,756)
	48	(99- 146)
	45	(1,001-1,045)
*Sau*96 Ⅰ	1,461	(1,948-3,408)
15	616	(3,727-4,342)
	352	(173- 524)
	279	(1,482-1,760)
	275	(525- 799)
	249	(888-1,136)
	222	(3,505-3,726)
	191	(4,343- 172)
	187	(1,761-1,947)
	179	(1,261-1,439)
	124	(1,137-1,260)
	88	(800- 887)
	79	(3,409-3,487)
	42	(1,440-1,481)
	17	(3,488-3,504)
*Scr*F Ⅰ	696	(2,854-3,549)
16	592	(3,901- 131)
	525	(536-1,060)
	364	(172- 535)
	351	(3,550-3,900)
	347	(2,155-2,501)
	328	(1,486-1,813)
	306	(1,814-2,119)
	218	(2,636-2,853)
	199	(1,061-1,259)
	184	(1,260-1,443)
	121	(2,502-2,622)
	42	(1,444-1,485)
	40	(132- 171)
	35	(2,120-2,154)
	13	(2,623-2,635)
Alu Ⅰ	908	(1,091-1,998)
17	659	(3,719- 16)
	656	(32- 687)
	521	(3,035-3,555)
	403	(688-1,090)
	281	(2,135-2,415)
	257	(2,778-3,034)
	226	(2,416-2,641)
	100	(3,556-3,655)
	90	(2,642-2,731)
	63	(3,656-3,718)
	57	(1,999-2,055)
	49	(2,067-2,115)
	46	(2,732-2,777)
	19	(2,116-2,134)
	15	(17- 31)
	11	(2,056-2,066)
Dpn Ⅰ	1,372	(1,670-3,041)
22	665	(4,047- 350)
	359	(469- 827)
	341	(3,331-3,671)
	317	(1,146-1,462)
	272	(828-1,099)
	258	(3,736-3,993)
	207	(1,463-1,669)
	105	(3,226-3,330)
	91	(378- 468)
	78	(3,136-3,213)
	75	(3,042-3,116)
	46	(3,690-3,735)
	36	(4,011-4,046)
	31	(1,100-1,130)
	27	(351- 377)
	18	(3,672-3,689)
	17	(3,994-4,010)
	15	(1,131-1,145)
	12	(3,214-3,225)
	11	(3,117-3,127)
	8	(3,128-3,135)
*Hae*Ⅲ	587	(3,757-4,343)
22	540	(1,949-2,488)
	502	(1,447-1,948)
	458	(2,952-3,409)
	434	(2,518-2,951)
	267	(3,490-3,756)
	234	(598- 831)
	213	(1,050-1,262)
	192	(4,344- 174)
	184	(1,263-1,446)
	124	(402- 525)
	123	(175- 297)
	104	(298- 401)
	89	(832- 920)
	80	(3,410-3,489)
	64	(534- 597)
	57	(993-1,049)
	51	(942- 992)
	21	(921- 941)
	18	(2,500-2,517)
	11	(2,489-2,499)
	8	(526- 533)
*Nde*Ⅱ	1,372	(1,668-3,039)
22	665	(4,045- 348)
	359	(467- 825)
	341	(3,329-3,669)
	317	(1,144-1,460)
	272	(826-1,097)
	258	(3,734-3,991)
	207	(1,461-1,667)
	105	(3,224-3,328)
	91	(376- 466)
	78	(3,134-3,211)
	75	(3,040-3,114)
	46	(3,688-3,733)
	36	(4,009-4,044)
	31	(1,098-1,128)
	27	(349- 375)
	18	(3,670-3,687)
	17	(3,992-4,008)
	15	(1,129-1,143)
	12	(3,212-3,223)
	11	(3,115-3,125)
	8	(3,126-3,133)
*Sau*3A Ⅰ	1,372	(1,668-3,039)
22	665	(4,045- 348)
	359	(467- 825)
	341	(3,329-3,669)
	317	(1,144-1,460)
	272	(826-1,097)
	258	(3,734-3,991)
	207	(1,461-1,667)
	105	(3,224-3,328)
	91	(376- 466)
	78	(3,134-3,211)
	75	(3,040-3,114)
	46	(3,688-3,733)
	36	(4,009-4,044)
	31	(1,098-1,128)
	27	(349- 375)
	18	(3,670-3,687)
	17	(3,992-4,008)
	15	(1,129-1,143)
	12	(321-3,223)
	11	(3,115-3,125)
	8	(3,126-3,133)
*Acc*Ⅱ	581	(2,521-3,101)
23	493	(3,432-3,924)
	452	(4,257- 347)
	370	(1,636-2,005)
	356	(348- 703)
	341	(2,180-2,520)
	332	(3,925-4,256)
	330	(3,102-3,431)
	145	(1,246-1,390)
	129	(819- 947)
	129	(1,107-1,235)
	122	(1,417-1,538)
	115	(704- 818)
	103	(2,077-2,179)
	97	(1,539-1,635)
	69	(2,006-2,074)
	66	(1,041-1,106)
	61	(980-1,040)
	27	(948- 974)
	26	(1,391-1,416)
	10	(1,236-1,245)
	5	(975- 979)
	2	(2,075-2,076)
Msp Ⅰ	622	(3,901- 161)
26	527	(2,154-2,680)
	404	(3,044-3,447)
	307	(1,813-2,119)
	242	(3,659-3,900)
	238	(1,021-1,258)
	217	(171- 387)
	201	(1,285-1,485)
	190	(2,854-3,043)
	180	(1,486-1,665)
	160	(771- 930)
	160	(535- 694)
	147	(1,666-1,812)
	147	(2,681-2,827)
	123	(412- 534)
	110	(3,549-3,658)
	90	(931-1,020)
	76	(695- 770)
	67	(3,482-3,548)
	34	(2,120-2,153)
	34	(3,448-3,481)
	26	(2,828-2,853)
	26	(1,259-1,284)
	15	(388- 402)
	9	(162- 170)
	9	(403- 411)