ColE1 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
*Acc*Ⅲ	6,646	(1,982-1,981)
1		
*Afl*Ⅱ	6,646	(391- 390)
1		
Alw44 Ⅰ	6,646	(938- 937)
1		
Ase Ⅰ	6,646	(7- 6)
1		
Ava Ⅰ	6,646	(5,352-5,351)
1		
Bal Ⅰ	6,646	(2,123-2,122)
1		
Bcl Ⅰ	6,646	(4,646-4,645)
1		
*Bsf*X Ⅰ	6,646	(4,001-4,000)
1		
*Eco*R Ⅰ	6,646	(6,645-6,644)
1		
Mlu Ⅰ	6,646	(3,898-3,897)
1		
Nru Ⅰ	6,646	(479- 478)
1		
Nsi Ⅰ	6,646	(10- 9)
1		
*Sac*Ⅱ	6,646	(5,151-5,150)
1		
Sca Ⅰ	6,646	(6,440-6,439)
1		
Sma Ⅰ	6,646	(5,354-5,353)
1		
Nae Ⅰ	6,646	(2,144-2,143)
1		
Acy Ⅰ	4,795	(4,549-2,697)
2	1,851	(2,698-4,548)
Ban Ⅰ	4,466	(4,182-2,001)
2	2,180	(2,002-4,181)
Bsm Ⅰ	6,119	(4,635-4,107)
2	527	(4,108-4,634)
*Bsf*E Ⅱ	5,388	(2,090- 831)
2	1,258	(832-2,089)
Cla Ⅰ	4,342	(2,311- 6)
2	2,304	(7-2,310)
*Dra*Ⅲ	5914	(4,125-3,392)
2	732	(3,393-4,124)
*Eco*R V	5,584	(6,490-5,427)
2	1,062	(5,428-6,489)
Nsp V	6,052	(190-6,241)
2	594	(6,242- 189)
Pvu Ⅰ	4,118	(6,364-3,835)
2	2,528	(3,836-6,363)
Stu Ⅰ	4,430	(4,783-2,566)
2	2,216	(2,567-4,782)
*Tth*111 Ⅰ	3,375	(1,497-4,871)
2	3,271	(4,872-1,496)
Acc Ⅰ	3,027	(2,285-5,311)
3	2,805	(5,312-1,470)
	814	(1,471-2,284)
*Bsp*1286 Ⅰ	3,525	(4,063- 941)
3	1,593	(2,470-4,062)
	1,528	(942-2,469)
Dra Ⅰ	4,383	(6,339-4,075)
3	1,221	(5,118-6,338)
	1,042	(4,076-5,117)
Pst Ⅰ	5,377	(6,556-5,286)
3	1,188	(5,368-6,555)
	81	(5,287-5,367)
*Pvu*Ⅱ	4,863	(3,435-1,651)
3	1,412	(2,023-3,434)
	371	(1,652-2,022)
Ssp Ⅰ	5,765	(474-6,238)
3	781	(6,239- 373)
	100	(374- 473)

Enzyme	Fragment Size	Locations
*Ava*Ⅱ	2,297	(4,462- 112)
4	2,239	(2,223-4,461)
	1,689	(534-2,222)
	421	(113- 533)
*Hae*Ⅱ	2,239	(5,419-1,011)
6	1,940	(3,479-5,418)
	1,317	(1,371-2,687)
	710	(2,769-3,478)
	359	(1,012-1,370)
	81	(2,688-2,768)
*Sau*96 Ⅰ	1,514	(4,462-5,975)
8	1,491	(2,223-3,713)
	994	(774-1,767)
	783	(5,976- 112)
	748	(3,714-4,461)
	455	(1,768-2,222)
	421	(113- 533)
	240	(534- 773)
Taq Ⅰ	2,276	(3,966-6,241)
10	988	(1,323-2,310)
	926	(3,040-3,965)
	881	(442-1,322)
	466	(2,434-2,899)
	409	(6,242- 4)
	252	(190- 441)
	185	(5- 189)
	140	(2,900-3,039)
	123	(2,311-2,433)
*Eco*R Ⅱ	3,193	(4,544-1,090)
11	782	(3,218-3,999)
	748	(2,470-3,217)
	589	(1,370-1,958)
	458	(4,000-4,457)
	271	(2,199-2,469)
	240	(1,959-2,198)
	145	(1,225-1,369)
	121	(1,104-1,224)
	86	(4,458-4,543)
	13	(1,091-1,103)
Dde Ⅰ	1,714	(978-2,691)
12	1,042	(3,460-4,501)
	974	(4- 977)
	653	(2,773-3,425)
	572	(6,078- 3)
	490	(4,922-5,411)
	450	(5,412-5,861)
	420	(4,502-4,921)
	195	(5,862-6,056)
	81	(2,692-2,772)
	34	(3,426-3,459)
	21	(6,057-6,077)
*Hae*Ⅲ	1,195	(4,783-5,977)
15	1,031	(5,978- 362)
	1,002	(3,781-4,782)
	969	(2,746-3,714)
	446	(1,255-1,700)
	444	(2,123-2,566)
	436	(776-1,211)
	413	(363- 775)
	257	(1,770-2,026)
	179	(2,567-2,745)
	84	(2,027-2,110)
	69	(1,701-1,769)
	66	(3,715-3,780)
	43	(1,212-1,254)
	12	(2,111-2,122)
*Hin*f Ⅰ	1,749	(5,779- 881)
15	942	(4,468-5,409)
	913	(3,555-4,467)
	712	(2,047-2,758)
	385	(882-1,266)
	369	(5,410-5,778)
	361	(1,686-2,046)
	344	(1,342-1,685)
	296	(3,049-3,344)
	210	(3,345-3,554)
	167	(2,759-2,925)
	78	(2,971-3,048)
	45	(2,926-2,970)
	41	(1,301-1,341)
	34	(1,267-1,300)
Fok Ⅰ	1,675	(3,739-5,413)
18	1,021	(532-1,552)
	957	(2,766-3,722)
	812	(6,344- 509)
	363	(5,414-5,776)
	327	(2,439-2,765)
	288	(5,903-6,190)
	263	(1,616-1,878)
	247	(2,192-2,438)
	187	(1,957-2,143)
	153	(6,191-6,343)
	78	(1,879-1,956)
	77	(5,777-5,853)
	63	(1,553-1,615)
	49	(5,854-5,902)
	48	(2,144-2,191)
	22	(510- 531)
	16	(3,723-3,738)

Enzyme	Fragment Size	Locations
Nci Ⅰ	2,167	(5,354- 874)
18	997	(3,067-4,063)
	542	(875-1,416)
	510	(4,843-5,352)
	436	(2,631-3,066)
	361	(4,263-4,623)
	305	(1,598-1,902)
	205	(2,096-2,300)
	203	(2,428-2,630)
	199	(4,064-4,262)
	193	(1,903-2,095)
	146	(1,417-1,562)
	123	(4,720-4,842)
	96	(4,624-4,719)
	79	(2,301-2,379)
	48	(2,380-2,427)
	35	(1,563-1,597)
	1	(5,353-5,353)
Dpn Ⅰ	2,141	(686-2,826)
19	1,008	(2,827-3,834)
	718	(4,999-5,716)
	661	(6,426- 440)
	341	(3,888-4,228)
	329	(4,229-4,557)
	301	(6,062-6,362)
	211	(5,717-5,927)
	181	(4,818-4,998)
	134	(5,928-6,061)
	131	(441- 571)
	94	(4,724-4,817)
	90	(4,558-4,647)
	76	(4,648-4,723)
	75	(611- 685)
	63	(6,363-6,425)
	53	(3,835-3,887)
	28	(572- 599)
	11	(600- 610)
*Nde*Ⅱ	2,141	(684-2,824)
19	1,008	(2,825-3,832)
	718	(4,997-5,714)
	661	(6,424- 438)
	341	(3,886-4,226)
	329	(4,227-4,555)
	301	(6,060-6,360)
	211	(5,715-5,925)
	181	(4,816-4,996)
	134	(5,926-6,059)
	131	(439- 569)
	94	(4,722-4,815)
	90	(4,556-4,645)
	76	(4,646-4,721)
	75	(609- 683)
	63	(6,361-6,423)
	53	(3,833-3,885)
	28	(570- 597)
	11	(598- 608)
Rsa Ⅰ	991	(1,428-2,418)
19	976	(5,464-6,439)
	950	(358-1,307)
	778	(2,547-3,324)
	564	(6,440- 357)
	415	(3,371-3,785)
	413	(4,354-4,766)
	323	(4,767-5,089)
	252	(4,042-4,293)
	243	(5,221-5,463)
	130	(3,786-3,915)
	126	(3,916-4,041)
	120	(1,308-1,427)
	99	(2,448-2,546)
	69	(5,090-5,158)
	62	(5,159-5,220)
	60	(4,294-4,353)
	46	(3,325-3,370)
	29	(2,419-2,447)
*Sau*3A Ⅰ	2,141	(684-2,824)
19	1,008	(2,825-3,832)
	718	(4,997-5,714)
	661	(6,424- 438)
	341	(3,886-4,226)
	329	(4,227-4,555)
	301	(6,060-6,360)
	211	(5,715-5,925)
	181	(4,816-4,996)
	134	(5,926-6,059)
	131	(439- 569)
	94	(4,722-4,815)
	90	(4,556-4,645)
	76	(4,646-4,721)
	75	(609- 683)
	63	(6,361-6,423)
	53	(3,833-3,885)
	28	(570- 597)
	11	(598- 608)
*Mbo*Ⅱ	1,012	(4,423-5,434)
21	916	(3,507-4,422)
	868	(1,208-2,075)
	615	(593-1,207)
	510	(2,342-2,851)

Enzyme	Fragment Size	Locations
	383	(2,852-3,234)
	371	(175- 545)
	317	(6,140-6,456)
	297	(5,708-6,004)
	265	(6,556- 174)
	228	(3,279-3,506)
	228	(2,076-2,303)
	135	(6,005-6,139)
	123	(5,435-5,557)
	123	(5,558-5,680)
	99	(6,457-6,555)
	47	(546- 592)
	38	(2,304-2,341)
	27	(5,681-5,707)
	26	(3,253-3,278)
	18	(3,235-3,252)
*Acc*Ⅱ	1,975	(5,150- 478)
24	913	(626-1,538)
	889	(3,900-4,788)
	321	(1,539-1,859)
	316	(1,860-2,175)
	279	(2,893-3,171)
	261	(3,265-3,525)
	196	(2,361-2,556)
	180	(3,652-3,831)
	177	(4,973-5,149)
	158	(4,815-4,972)
	148	(2,557-2,704)
	126	(3,526-3,651)
	101	(2,260-2,360)
	99	(2,705-2,803)
	96	(479- 574)
	93	(3,172-3,264)
	89	(2,804-2,892)
	84	(2,176-2,259)
	53	(3,838-3,890)
	51	(575- 625)
	26	(4,789-4,814)
	9	(3,891-3,899)
	6	(3,832-3,837)
Hha Ⅰ	1740	(5,532- 625)
25	898	(3,893-4,790)
	601	(1,541-2,141)
	585	(2,893-3,477)
	434	(4,973-5,406)
	292	(1,078-1,369)
	291	(2,268-2,558)
	182	(4,791-4,972)
	180	(3,652-3,831)
	176	(735- 910)
	174	(3,478-3,651)
	141	(1,370-1,510)
	128	(2,559-2,686)
	125	(2,768-2,892)
	114	(5,418-5,531)
	109	(626- 734)
	100	(911-1,010)
	92	(2,176-2,267)
	81	(2,687-2,767)
	67	(1,011-1,077)
	53	(3,840-3,892)
	34	(2,142-2,175)
	30	(1,511-1,540)
	11	(5,407-5,417)
	8	(3,832-3,839)
*Scr*F Ⅰ	2167	(5,354- 874)
29	782	(3,220-4,001)
	510	(4,843-5,352)
	436	(2,631-3,066)
	305	(1,598-1,902)
	218	(875-1,092)
	199	(4,064-4,262)
	197	(4,263-4,459)
	159	(2,472-2,630)
	153	(3,067-3,219)
	146	(1,417-1,562)
	145	(1,227-1,371)
	135	(1,961-2,095)
	123	(4,720-4,842)
	121	(1,106-1,226)
	105	(2,096-2,200)
	100	(2,201-2,300)
	96	(4,624-4,719)
	86	(4,460-4,545)
	79	(2,301-2,379)
	78	(4,546-4,623)
	62	(4,002-4,063)
	58	(1,903-1,960)
	48	(2,380-2,427)
	45	(1,372-1,416)
	44	(2,428-2,471)
	35	(1,563-1,597)
	13	(1,093-1,105)
	1	(5,353-5,353)