General Description
DNA Plasmid pcDNA3.1-E©
Entire molecule length: 5360 bp

Restriction Map

<table>
<thead>
<tr>
<th>Enzyme</th>
<th># of cuts</th>
<th>Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AatI</td>
<td>1</td>
<td>1986</td>
</tr>
<tr>
<td>AatII</td>
<td>5</td>
<td>376 429 512 698 5360</td>
</tr>
<tr>
<td>Accl</td>
<td>3</td>
<td>3168 3175 5360</td>
</tr>
<tr>
<td>Acil</td>
<td>67</td>
<td>62 309 337 349 363 530 621(c) 654(c) 758 779(c) 944 1170(c) 1194(c) 1243(c) 1257(c) 1260(c) 1288 1315 1835 1847 1856 1868 1878 1889 1935 2106 2169 2263(c) 2327(c) 2428(c) 2431(c) 2671 2711(c) 2716 2766(c) 2782 2808 2864(c) 2933 2936 3002(c) 3238 3341 3397(c) 3407(c) 3431 3474(c) 3481(c) 3502(c) 3593 3621 3748 3767 3888 3998(c) 4133 4142(c) 4501 4592 4783(c) 4829 4950(c) 4994 5071 5180 5279(c) 5326 5357</td>
</tr>
<tr>
<td>Acsl</td>
<td>3</td>
<td>128 1644 3087</td>
</tr>
<tr>
<td>Acyl</td>
<td>9</td>
<td>373 426 509 695 2197 2899 2978 4975 5357</td>
</tr>
<tr>
<td>AflII</td>
<td>2</td>
<td>229 3548</td>
</tr>
<tr>
<td>Alul</td>
<td>25</td>
<td>136 817 892 1207 1374 1631 1951 2005 2015 2303 2761 3052 3185 3191 3213 3308 3372 3490 3716 3806 3852 4109 4627 4727 4790</td>
</tr>
<tr>
<td>Alw44I</td>
<td>3</td>
<td>33 3862 5105</td>
</tr>
<tr>
<td>Alwl</td>
<td>17</td>
<td>13 16(c) 2041 2065 2376 2441(c) 2622 2985(c) 3014 4109(c) 4192(c) 4194 4290(c) 4291 4754(c) 5071 5075(c)</td>
</tr>
<tr>
<td>Enzyme</td>
<td>Type</td>
<td>Start Position</td>
</tr>
<tr>
<td>--------</td>
<td>------</td>
<td>----------------</td>
</tr>
<tr>
<td>AlwNI</td>
<td>2</td>
<td>81 3964</td>
</tr>
<tr>
<td>AosI</td>
<td>2</td>
<td>2299 4660</td>
</tr>
<tr>
<td>ApaLI</td>
<td>3</td>
<td>33 3862 5105</td>
</tr>
<tr>
<td>Apol</td>
<td>3</td>
<td>128 1644 3087</td>
</tr>
<tr>
<td>AseI</td>
<td>6</td>
<td>258 863 1658 3319</td>
</tr>
<tr>
<td>Asnl</td>
<td>6</td>
<td>258 863 1658 3319</td>
</tr>
<tr>
<td>Asp700</td>
<td>2</td>
<td>1659 5037</td>
</tr>
<tr>
<td>AspEI</td>
<td>1</td>
<td>4438</td>
</tr>
<tr>
<td>AspHI</td>
<td>7</td>
<td>37 819 2310 2500</td>
</tr>
<tr>
<td>Aspl</td>
<td>1</td>
<td>2315</td>
</tr>
<tr>
<td>AsuII</td>
<td>1</td>
<td>2879</td>
</tr>
<tr>
<td>Aval</td>
<td>1</td>
<td>2008</td>
</tr>
<tr>
<td>Avall</td>
<td>3</td>
<td>2713 4576 4798</td>
</tr>
<tr>
<td>AvIII</td>
<td>2</td>
<td>2299 4660</td>
</tr>
<tr>
<td>AvrII</td>
<td>1</td>
<td>1987</td>
</tr>
<tr>
<td>BanI</td>
<td>7</td>
<td>716 1026 1420 2196</td>
</tr>
<tr>
<td>BanII</td>
<td>5</td>
<td>819 1179 1215 1390</td>
</tr>
<tr>
<td>BbsI</td>
<td>1</td>
<td>1150</td>
</tr>
<tr>
<td>BbvI</td>
<td>18</td>
<td>188(c) 1291 2144(c)</td>
</tr>
<tr>
<td>BfaI</td>
<td>13</td>
<td>251 830 897 970</td>
</tr>
<tr>
<td>BglI</td>
<td>1</td>
<td>1 4977</td>
</tr>
<tr>
<td>BglII</td>
<td>4</td>
<td>341 463 534 4558</td>
</tr>
<tr>
<td>BglIII</td>
<td>1</td>
<td>13</td>
</tr>
<tr>
<td>BlnI</td>
<td>1</td>
<td>1987</td>
</tr>
<tr>
<td>BmyI</td>
<td>13</td>
<td>37 819 1179 1215</td>
</tr>
<tr>
<td>BpmI</td>
<td>3</td>
<td>2980(c) 3037 4508(c)</td>
</tr>
<tr>
<td>BpuAI</td>
<td>1</td>
<td>1150</td>
</tr>
<tr>
<td>BsaAI</td>
<td>3</td>
<td>591 1461 2501</td>
</tr>
<tr>
<td>BsaBI</td>
<td>1</td>
<td>2056</td>
</tr>
<tr>
<td>BsaHI</td>
<td>9</td>
<td>373 426 509 696</td>
</tr>
<tr>
<td>Bsal</td>
<td>2</td>
<td>877(c) 4499(c)</td>
</tr>
<tr>
<td>BsaJI</td>
<td>12</td>
<td>611 1018 1699 1771</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2008 2360 2629</td>
</tr>
<tr>
<td>Enzyme</td>
<td>Multiplicity</td>
<td>Start</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------</td>
<td>-------</td>
</tr>
<tr>
<td>BsaWI</td>
<td>4</td>
<td>2228</td>
</tr>
<tr>
<td>BsiEI</td>
<td>5</td>
<td>2106</td>
</tr>
<tr>
<td>BsiHKAI</td>
<td>7</td>
<td>37</td>
</tr>
<tr>
<td>BsiYI</td>
<td>12</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BslI</td>
<td>12</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BsmAI</td>
<td>5</td>
<td>685</td>
</tr>
<tr>
<td>BsmFI</td>
<td>9</td>
<td>426</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bsml</td>
<td>1</td>
<td>3117</td>
</tr>
<tr>
<td>Bsp1286I</td>
<td>13</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BspHI</td>
<td>2</td>
<td>4265</td>
</tr>
<tr>
<td>BspMI</td>
<td>3</td>
<td>2084</td>
</tr>
<tr>
<td>BspWI</td>
<td>35</td>
<td>198</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BsrBI</td>
<td>6</td>
<td>1317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BsrDI</td>
<td>3</td>
<td>2430</td>
</tr>
<tr>
<td>BsrFI</td>
<td>5</td>
<td>1356</td>
</tr>
<tr>
<td>BsrI</td>
<td>16</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BssHII</td>
<td>1</td>
<td>2594</td>
</tr>
<tr>
<td>Bst1107I</td>
<td>1</td>
<td>3169</td>
</tr>
<tr>
<td>BstBI</td>
<td>1</td>
<td>2879</td>
</tr>
<tr>
<td>BstNI</td>
<td>11</td>
<td>341</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enzyme</td>
<td>Nucleotide Range</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------</td>
<td></td>
</tr>
<tr>
<td>BstUI</td>
<td>121 209 231 311 1233 1257 1277 1653 2263 2968 3395 3397 4503 4996 5328</td>
<td></td>
</tr>
<tr>
<td>BstYI</td>
<td>13 2033 2368 2614 3006 4186 4197 4283 4295 5063 5080</td>
<td></td>
</tr>
<tr>
<td>Cfol</td>
<td>121 201 1235 1248 1257 1279 1305 1313 2191 2199 2263 2300 2566 2596 2598 2826 3002 3332 3397 3425 3458 3728 3795 3895 4175 4568 4661 4998 5330</td>
<td></td>
</tr>
<tr>
<td>Cfr10I</td>
<td>1356 2516 2697 2980 4518</td>
<td></td>
</tr>
<tr>
<td>Csp45I</td>
<td>2879</td>
<td></td>
</tr>
<tr>
<td>Csp6I</td>
<td>44 214 469 494 549 582 633 790 2502 4917</td>
<td></td>
</tr>
<tr>
<td>Ddel</td>
<td>40 110 181 1080 1189 1947 2860 3023 4229 4395 4935</td>
<td></td>
</tr>
<tr>
<td>DpnI</td>
<td>7 15 23 950 2035 2040 2059 2370 2448 2529 2538 2616 2992 3008 4116 4188 4199 4207 4285 4297 4402 4743 4761 4807 5065 5082 5118</td>
<td></td>
</tr>
<tr>
<td>DpnII</td>
<td>5 13 21 948 2033 2038 2057 2368 2446 2527 2536 2614 2990 3006 4114 4186 4197 4205 4283 4295 4400 4741 4759 4805 5063 5080 5116</td>
<td></td>
</tr>
<tr>
<td>Dral</td>
<td>939 4304 4323 5015</td>
<td></td>
</tr>
<tr>
<td>DrallI</td>
<td>1464</td>
<td></td>
</tr>
<tr>
<td>Drdl</td>
<td>1508 2224 3656</td>
<td></td>
</tr>
<tr>
<td>DsaI</td>
<td>611 1894 2629</td>
<td></td>
</tr>
<tr>
<td>DsaV</td>
<td>339 532 1018 1699</td>
<td></td>
</tr>
<tr>
<td>Enzyme</td>
<td>Count</td>
<td>Positions</td>
</tr>
<tr>
<td>-------------</td>
<td>-------</td>
<td>------------------------------------</td>
</tr>
<tr>
<td>EaeI</td>
<td>6</td>
<td>1754 1771 2007 2008 2199 2359 2582 2972 3286 3574 3695 3708 3926 4619 4970</td>
</tr>
<tr>
<td>EagI</td>
<td>1</td>
<td>2103</td>
</tr>
<tr>
<td>Eam1105I</td>
<td>1</td>
<td>4438</td>
</tr>
<tr>
<td>Earl</td>
<td>4</td>
<td>2541(c) 2751(c) 3432 5233</td>
</tr>
<tr>
<td>Ecl136II</td>
<td>1</td>
<td>817</td>
</tr>
<tr>
<td>EclXI</td>
<td>1</td>
<td>2103</td>
</tr>
<tr>
<td>Eco57I</td>
<td>4</td>
<td>2343 2775 4096 5105(c)</td>
</tr>
<tr>
<td>EcoRII</td>
<td>11</td>
<td>339 532 1018 1699 1754 1771 2582 3286 3574 3695 3708</td>
</tr>
<tr>
<td>Fnu4HI</td>
<td>37</td>
<td>62 202 1244 1258 1280 1935 2106 2158 2169 2259 2264 2301 2342 2429 2432 2435 2671 2767 2808 2822 2936 3050 3373 3454 3472 3475 3593 3748 3891 3956 3959 4162 4490 4829 4856 4951 5180</td>
</tr>
<tr>
<td>FnuDII</td>
<td>19</td>
<td>121 209 231 311 1233 1257 1277 1653 2263 2564 2596 3002 3395 3397 3595 4173 4503 4996 5328</td>
</tr>
<tr>
<td>FokI</td>
<td>9</td>
<td>1179 1838(c) 2064 2521 2546 3000 4404(c) 4585(c) 4872(c)</td>
</tr>
<tr>
<td>FspI</td>
<td>2</td>
<td>4829</td>
</tr>
<tr>
<td>Haell</td>
<td>5</td>
<td>1306 1314 2200 3426 3796</td>
</tr>
<tr>
<td>HaellII</td>
<td>20</td>
<td>220 335 528 1469 1611 1928 1934 1986 2105 2279 2670 2697 3389 3563 3574 3592 4026 4481 4561 4828</td>
</tr>
<tr>
<td>Hgal</td>
<td>6</td>
<td>777 2907 2986 3659 4234 4964(c)</td>
</tr>
<tr>
<td>HgiAI</td>
<td>7</td>
<td>37 819 2310 2500 3866 5024 5109</td>
</tr>
<tr>
<td>Restriction Enzyme</td>
<td>Count</td>
<td>Positions</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>HhaI</td>
<td>30</td>
<td>121 201 1235 1248 1257 1279 1305 1313 2191 2199 2263 2300 2566 2596 2598 2826 3002 3332 3397 3425 3458 3728 3795 3895 4069 4175 4568 4661 4998 5330</td>
</tr>
<tr>
<td>HinP1I</td>
<td>30</td>
<td>119 199 1233 1246 1255 1277 1303 1311 2189 2197 2261 2298 2564 2594 2596 2824 3000 3330 3395 3423 3456 3726 3793 3893 4067 4173 4566 4659 4996 5328</td>
</tr>
<tr>
<td>HincII</td>
<td>3</td>
<td>1 235 3176</td>
</tr>
<tr>
<td>HindII</td>
<td>3</td>
<td>1 235 3176</td>
</tr>
<tr>
<td>Hinfl</td>
<td>15</td>
<td>174 661 870 1509 1531 2682 2816 2868 2926 2963 3383 3448 3523 3919 4433</td>
</tr>
<tr>
<td>HpaII</td>
<td>22</td>
<td>1357 2009 2102 2179 2201 2229 2360 2450 2517 2698 2973 2981 3266 3755 3902 3928 4118 4519 4553 4620 4730 4972</td>
</tr>
<tr>
<td>HphI</td>
<td>8</td>
<td>627 1461 2375(c) 4281(c) 4508(c) 4924 5130(c) 5165</td>
</tr>
<tr>
<td>ItaI</td>
<td>37</td>
<td>62 202 1244 1258 1280 1935 2106 2158 2169 2259 2264 2301 2342 2429 2432 2435 2671 2767 2808 2822 2936 3050 3373 3454 3472 3475 3593 3748 3891 3956 3959 4162 4490 4829 4856 4951 5180</td>
</tr>
<tr>
<td>KasI</td>
<td>1</td>
<td>2196</td>
</tr>
<tr>
<td>Ksp632I</td>
<td>4</td>
<td>2541(c) 2751(c) 3432 5233</td>
</tr>
<tr>
<td>Mael</td>
<td>13</td>
<td>251 830 897 970 1216 1308 1988</td>
</tr>
<tr>
<td>Enzyme</td>
<td>Start</td>
<td>End</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>MaeII</td>
<td>16</td>
<td>373 385 426 509 590 695 1350 1460 1503 1515 2313 2500 4248 4664 5037 5357</td>
</tr>
<tr>
<td>MaeIII</td>
<td>16</td>
<td>312 399 748 1271 1283 2317 2623 3061 3904 3967 4083 4363 4694 4752 4905 5093</td>
</tr>
<tr>
<td>Maml</td>
<td>1</td>
<td>2056</td>
</tr>
<tr>
<td>Mbol</td>
<td>27</td>
<td>5 13 21 948 2033 2038 2057 2368 2446 2527 2536 2614 2990 3006 4114 4186 4197 4205 4283 4295 4400 4741 4759 4805 5063 5080 5116</td>
</tr>
<tr>
<td>MbolI</td>
<td>14</td>
<td>183 1155 1322(c) 2558 2768 2848(c) 3015(c) 3419(c) 4058 4207 4278(c) 5033(c) 5111(c) 5220(c)</td>
</tr>
<tr>
<td>McrI</td>
<td>5</td>
<td>2106 3464 3888 4808 4957</td>
</tr>
<tr>
<td>MfeI</td>
<td>1</td>
<td>162</td>
</tr>
<tr>
<td>MluI</td>
<td>1</td>
<td>229</td>
</tr>
<tr>
<td>MluNI</td>
<td>1</td>
<td>2279</td>
</tr>
<tr>
<td>MnlI</td>
<td>32</td>
<td>96(c) 792(c) 916 965 1007 1052(c) 1127(c) 1184(c) 1434 1918(c) 1924(c) 1948 1954 1961(c) 1964(c) 1976(c) 2048(c) 2112(c) 2248(c) 2605(c) 2798 3004 3189 3397(c) 3447 3656(c) 3730 3980(c) 4377(c) 4458(c) 4605 4811</td>
</tr>
<tr>
<td>Mscl</td>
<td>1</td>
<td>2279</td>
</tr>
<tr>
<td>Msel</td>
<td>21</td>
<td>70 132 258 863 938 1251 1522 1620 1637 1648 1658 3319 3378 4251 4303 4308 4322 4375 4610 4649 5014</td>
</tr>
<tr>
<td>MsII</td>
<td>5</td>
<td>616 2634 4690 4849 5208</td>
</tr>
<tr>
<td>MspA1I</td>
<td>7</td>
<td>946 1207 2303 3372</td>
</tr>
<tr>
<td>Enzyme</td>
<td>Restriction Sites</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>------------------</td>
<td></td>
</tr>
<tr>
<td>MspI</td>
<td>22 1357 2009 2102 2179 2201 2229 2360 2450 2517 2698 2973 2991 3266 3755 3902 3928 4118 4519 4553 4620 4730 4972</td>
<td></td>
</tr>
<tr>
<td>MunI</td>
<td>1 162</td>
<td></td>
</tr>
<tr>
<td>MvaI</td>
<td>11 341 534 1020 1701 1756 1773 2584 3288 3576 3697 3710</td>
<td></td>
</tr>
<tr>
<td>MvnI</td>
<td>19 121 209 231 311 1233 1257 1277 1653 2263 2564 2596 3002 3395 3397 3595 4173 4503 4996 5328</td>
<td></td>
</tr>
<tr>
<td>Mwol</td>
<td>35 198 341 463 495 534 627 651 1167 1191 1252 1254 1296 1323 1353 1732 1804 1855 1934 1940 2188 2272 2295 2434 2440 2557 2593 2640 2907 3292 3336 3420 3487 3601 4170 4558</td>
<td></td>
</tr>
<tr>
<td>Nael</td>
<td>3 1358 2699 2982</td>
<td></td>
</tr>
<tr>
<td>Narf</td>
<td>1 2197</td>
<td></td>
</tr>
<tr>
<td>NciII</td>
<td>8 2009 2010 2201 2361 2974 3928 4621 4972</td>
<td></td>
</tr>
<tr>
<td>NcoI</td>
<td>3 611 1894 2629</td>
<td></td>
</tr>
<tr>
<td>NdeI</td>
<td>1 485</td>
<td></td>
</tr>
<tr>
<td>NdeII</td>
<td>27 5 13 21 948 2033 2038 2057 2368 2446 2527 2536 2614 2990 3006 4114 4186 4197 4205 4283 4295 4400 4741 4759 4805 5063 5080 5116</td>
<td></td>
</tr>
<tr>
<td>NgoMI</td>
<td>3 1356 2697 2980</td>
<td></td>
</tr>
<tr>
<td>NlaIII</td>
<td>22 171 555 615 1161 1735 1807 1898 2071 2416 2602 2633 2659 3015 3163 3206 3552 4269 4760 4770 4848 4884 5277</td>
<td></td>
</tr>
<tr>
<td>Enzyme</td>
<td>Loci</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td><em>NlaIV</em></td>
<td>17</td>
<td>718 1028 1389 1401 1422 1705 1777 2198 2233 3294 3580 3619 4388 4482 4523 4734 5324</td>
</tr>
<tr>
<td><em>NruI</em></td>
<td>1</td>
<td>209</td>
</tr>
<tr>
<td><em>NsiI</em></td>
<td>2</td>
<td>1737 1809</td>
</tr>
<tr>
<td><em>NspI</em></td>
<td>5</td>
<td>1161 1735 1807 2602 3552</td>
</tr>
<tr>
<td><em>NspV</em></td>
<td>1</td>
<td>2879</td>
</tr>
<tr>
<td><em>Plei</em></td>
<td>8</td>
<td>655(c) 864(c) 1517 1525(c) 2862(c) 3442(c) 3927 4427(c)</td>
</tr>
<tr>
<td><em>Pmel</em></td>
<td>1</td>
<td>939</td>
</tr>
<tr>
<td><em>Ppu10I</em></td>
<td>2</td>
<td>1733 1805</td>
</tr>
<tr>
<td><em>Psp1406I</em></td>
<td>2</td>
<td>4664 5037</td>
</tr>
<tr>
<td><em>PstI</em></td>
<td>1</td>
<td>2250</td>
</tr>
<tr>
<td><em>PvuI</em></td>
<td>1</td>
<td>4808</td>
</tr>
<tr>
<td><em>Pvull</em></td>
<td>3</td>
<td>1207 2303 3372</td>
</tr>
<tr>
<td><em>Rcal</em></td>
<td>2</td>
<td>4265 5273</td>
</tr>
<tr>
<td><em>Rsal</em></td>
<td>10</td>
<td>45 215 470 495 550 583 634 791 2503 4918</td>
</tr>
<tr>
<td><em>RsrII</em></td>
<td>1</td>
<td>2713</td>
</tr>
<tr>
<td><em>SalI</em></td>
<td>1</td>
<td>819</td>
</tr>
<tr>
<td><em>Sall</em></td>
<td>2</td>
<td>3174 5359</td>
</tr>
<tr>
<td><em>SapI</em></td>
<td>3</td>
<td>2541(c) 2751(c) 3432</td>
</tr>
<tr>
<td><em>Sau3AI</em></td>
<td>27</td>
<td>5 13 21 948 2033 2038 2057 2368 2446 2527 2536 2614 2990 3006 4114 4186 4197 4205 4283 4295 4400 4741 4759 4805 5063 5080 5116</td>
</tr>
<tr>
<td><em>Sau96I</em></td>
<td>9</td>
<td>218 334 527 1467 2713 4480 4559 4576 4798</td>
</tr>
<tr>
<td><em>ScaI</em></td>
<td>1</td>
<td>4918</td>
</tr>
<tr>
<td><em>ScrFI</em></td>
<td>19</td>
<td>341 534 1020 1701 1756 1773 2009 2010 2201 2361 2584 2974 3288 3576 3697 3710 3928 4621 4972</td>
</tr>
<tr>
<td><em>SexAI</em></td>
<td>1</td>
<td>1754</td>
</tr>
<tr>
<td><em>SfaNI</em></td>
<td>17</td>
<td>48(c) 608(c) 1077 1157(c) 1744 1816 2155(c) 2410(c) 2496 2560 2626(c) 2835 3089 3645 4694 4885(c) 5134</td>
</tr>
<tr>
<td>Enzyme</td>
<td>Count</td>
<td>Positions</td>
</tr>
<tr>
<td>----------</td>
<td>-------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Sfcl</td>
<td>6</td>
<td>876 1238 2246 3813</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4004 4679</td>
</tr>
<tr>
<td>Sful</td>
<td>1</td>
<td>2879</td>
</tr>
<tr>
<td>Smal</td>
<td>1</td>
<td>2010</td>
</tr>
<tr>
<td>SnaBl</td>
<td>1</td>
<td>591</td>
</tr>
<tr>
<td>Snol</td>
<td>3</td>
<td>33 3862 5105</td>
</tr>
<tr>
<td>SpeI</td>
<td>1</td>
<td>250</td>
</tr>
<tr>
<td>Sphl</td>
<td>4</td>
<td>1161 1735 1807</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2602</td>
</tr>
<tr>
<td>SspI</td>
<td>1</td>
<td>5242</td>
</tr>
<tr>
<td>Stul</td>
<td>1</td>
<td>1986</td>
</tr>
<tr>
<td>StyI</td>
<td>4</td>
<td>611 1894 1987 2629</td>
</tr>
<tr>
<td>Taql</td>
<td>14</td>
<td>857 957 1426 2310</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2466 2490 2526</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2688 2879 2924</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3175 3648 5089</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5360</td>
</tr>
<tr>
<td>TfII</td>
<td>7</td>
<td>174 2682 2816 2926</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2963 3383 3523</td>
</tr>
<tr>
<td>Thal</td>
<td>19</td>
<td>121 209 231 311</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1233 1257 1277</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1653 2263 2564</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2596 3002 3395</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3397 3595 4173</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4503 4996 5328</td>
</tr>
<tr>
<td>Tru9I</td>
<td>21</td>
<td>70 132 258 863 938</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1251 1522 1620</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1637 1648 1658</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3319 3378 4251</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4303 4308 4322</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4375 4610 4649</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5014</td>
</tr>
<tr>
<td>Tsp509I</td>
<td>19</td>
<td>128 162 269 860 900</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1063 1644 1655</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1659 1741 1813</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1905 3087 3228</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3245 3320 4305</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4611 4866</td>
</tr>
<tr>
<td>Tth111I</td>
<td>1</td>
<td>2315</td>
</tr>
<tr>
<td>Xholl</td>
<td>11</td>
<td>13 2033 2368 2614</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3006 4186 4197</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4283 4295 5063</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5080</td>
</tr>
<tr>
<td>Xmal</td>
<td>1</td>
<td>2008</td>
</tr>
<tr>
<td>XmalII</td>
<td>1</td>
<td>2103</td>
</tr>
<tr>
<td>Xnnl</td>
<td>2</td>
<td>1659 5037</td>
</tr>
</tbody>
</table>

No cuts: Acc65I, AccIII, AflIII, Agel, Apal, Ascl, Asp718, BamHI, BbrRI, BfII, Bpu102I, BseAI, BsgI, BsiWI, Bsp120I, BspDI, BspEI, BsrGI, BstEII, BstXII, Bsu36I, CelII, Clal, DraII, Eco47III, EcoNI, EcoO109I, EcoRI, EcoRV, Esp3I, EspI, HindIII, HpaI, KpnI, KspI, MrOl, NheI, NotI, PacI, PaeR7I, PfuMI, PinAI, PmaCI, PmlII, PpuMI, SacII, SfiI, SgrAI, SspBI, SvaI, Van91I, XbaI, XcmI, XhoI