**Table S6** Small insertions and deletions in clone D relative to CFT073: allocation to lineage by virtual outgroup analysis. The *E. coli* /*Shigella* genomes used for the analysis are shown, with details of the blocks present in outgroup genomes and genomes under analysis, and also the final allocation and a measure of support level for that allocation.

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
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| 78 | + | - | CFT073 | del | 45543 | 1 | i02_0044 | fixB | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | / | + | + | + | / | + | + |
| 79 | - | + | clone D | del | 72763 | 1 | intergenic | | + | +++ | + | + | + | + | + | / | / | / | / | + | + | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 80 | - | + | CFT073 | ins | 133186 | 1 | i02_0131 | aceF | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | - | - | - | - | - | - |
| 81 | + | - | clone D | ins | 144870 | 6 | i02_0139 | yacK | - | ++++ | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 82 | + | - | clone D | ins | 154523 | 12 | i02_0149 | yadD | - | +++ | - | / | / | / | - | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 83 | - | + | CFT073 | ins | 155811 | 1 | i02_0151 | panC | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 84 | - | + | CFT073 | ins | 199713 | 1 | i02_0193 | dxr | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 85 | + | - | CFT073 | del | 227763 | 3 | i02_0220 | metQ | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 86 | + | - | CFT073 | del | 232061 | 1 | rRNA_001 | rrs | + | ++++ | + | + | + | - | + | + | + | - | + | + | - | + | + | + | + | - | + | + | + | - | + | + | + | + |
| 87 | - | + | CFT073 | ins | 232066 | 1 | rRNA_001 | rrs | - | ++ | - | - | - | + | - | - | - | + | - | - | + | - | + | - | / | + | - | - | - | + | + | - | - | - |
| 88 | - | + | CFT073 | ins | 233460 | 1 | rRNA_002 | rrl | - | ++ | - | - | - | + | - | - | / | + | + | - | / | + | + | + | + | - | - | + | + | + | - | + | + | + |
| 89 | + | - | CFT073 | del | 233464 | 3 | rRNA_002 | rrl | + | ++ | + | + | + | + | + | + | + | - | - | + | + | - | - | - | - | + | + | - | - | - | + | - | - | - |
| 90 | - | + | CFT073 | ins | 233469 | 3 | rRNA_002 | rrl | - | ++ | - | - | - | + | - | - | / | + | + | - | / | + | + | + | + | - | - | + | + | + | - | + | + | + |
| 91 | - | + | CFT073 | ins | 234089 | 1 | rRNA_002 | rrl | - | ++ | - | - | - | + | - | - | + | + | - | - | - | + | - | + | + | - | + | - | + | + | - | - | + | + |
| 92 | + | - | CFT073 | del | 234785 | 1 | rRNA_002 | rrl | + | ++ | + | + | + | + | + | + | + | - | - | + | + | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 93 | + | - | CFT073 | del | 234789 | 1 | rRNA_002 | rrl | + | ++ | + | + | + | + | + | + | + | - | - | + | + | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 94 | - | + | CFT073 | ins | 272526 | 1 | i02_0280 | | - | ++++ | / | - | - | - | - | - | / | / | / | - | - | / | / | - | / | - | / | / | / | / | / | / | / | / |
| 95 | - | + | CFT073 | ins | 273259 | 1 | i02_0281 | | - | +++ | / | - | - | - | - | / | / | / | / | - | - | / | / | - | / | / | / | / | / | / | / | / | / | / |
| 96 | - | + | ? | indel | 327228 | 1 | intergenic | | ? | +/- | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 97 | - | + | ? | indel | 327823 | 1 | intergenic | | ? | +/- | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
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| 98 | - | + | ? | indel | 347908 | 1 | i02_0343 |  | ? | +/- | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 99 | + | - | clone D | ins | 376418 | 2 | i02_0372 |  | - | +++ | / | - | - | - | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 100 | - | + | CFT073 | ins | 390718 | 1 | intergenic |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | / | / | / | / | / |
| 101 | - | + | CFT073 | ins | 390903 | 1 | i02_0391 |  | - | ++++ | - | - | - | - | - | - | / | / | / | - | - | / | / | / | / | - | - | / | / | / | / | / | / | / |
| 102 | + | - | CFT073 | del | 390967 | 1 | i02_0391 |  | + | ++++ | / | + | + | + | + | + | / | / | / | + | + | / | / | / | / | + | + | / | / | / | / | / | / | / |
| 103 | - | + | CFT073 | ins | 390984 | 1 | i02_0391 |  | - | ++++ | / | - | - | - | - | - | / | / | / | - | - | / | / | / | / | - | - | / | / | / | / | / | / | / |
| 104 | + | - | CFT073 | del | 391060 | 1 | i02_0391 |  | + | ++++ | / | + | + | + | + | + | / | / | / | + | + | / | / | / | / | + | + | / | / | / | / | / | / | / |
| 105 | - | + | CFT073 | ins | 416956 | 1 | intergenic |  | - | ++ | / | - | + | + | + | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 106 | - | + | CFT073 | ins | 431814 | 1 | i02_0427 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | / | - | / | / | / | / |
| 107 | - | + | CFT073 | ins | 431828 | 1 | i02_0427 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | / | - | / | / | / | / |
| 108 | - | + | CFT073 | ins | 453588 | 1 | intergenic |  | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | / | / | - | - | / | / | / |
| 109 | + | - | CFT073 | del | 453852 | 1 | i02_0444 | lacI | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | / | / | + | + | / | / | / |
| 110 | - | + | CFT073 | ins | 453931 | 1 | i02_0444 | lacI | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | / | - | - | / | / | / |
| 111 | - | + | CFT073 | ins | 593588 | 1 | i02_0588 | ybbM | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 112 | - | + | CFT073 | ins | 599774 | 1 | i02_0594 | ybbB | - | ++++ | - | - | - | - | - | - | - | - | - | - | / | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 113 | - | + | CFT073 | ins | 626234 | 1 | i02_0618 | ybcI | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 114 | + | - | CFT073 | del | 793305 | 1 | i02_0779 |  | + | +++ | + | + | + | + | + | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 115 | - | + | CFT073 | ins | 793475 | 1 | i02_0780 |  | - | +++ | - | - | - | - | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 116 | - | + | CFT073 | ins | 802982 | 1 | i02_0791 | ybgF | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 117 | - | + | CFT073 | ins | 942703 | 1 | i02_0931 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 118 | - | + | CFT073 | ins | 970076 | 1 | i02_0953 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 119 | - | + | CFT073 | ins | 986199 | 1 | i02_0965 | lpxK | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | + | - | CFT073 | del | 1066831 | 1 | i02_1039 | agp | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | / | + | + | + | / | + | + |
| 121 | - | + | CFT073 | ins | 1066931 | 1 | i02_1039 | agp | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | - | - | - | / | - | - |
| 122 | - | + | CFT073 | ins | 1081238 | 1 | i02_1055 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | - | / | / | / | / |

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
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| 123 | - | + | CFT073 | ins | 1129853 | 1 | intergenic |  | - | ++ | / | - | / | / | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 124 | - | + | ? | indel | 1132746 | 1 | intergenic |  | ? | +/- | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 125 | - | + | CFT073 | ins | 1141301 | 1 | i02_1117 |  | - | ++++ | / | - | / | / | / | / | - | - | - | - | / | / | / | / | / | / | / | / | - | - | - | / | - | - |
| 126 | - | + | CFT073 | ins | 1203554 | 1 | i02_1181 | ycdW | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 127 | - | + | CFT073 | ins | 1232838 | 1 | i02_1220 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 128 | - | + | CFT073 | ins | 1232865 | 1 | i02_1220 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 129 | - | + | CFT073 | ins | 1232932 | 1 | i02_1220 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | + | CFT073 | ins | 1256746 | 1 | i02_1247 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 131 | - | + | CFT073 | ins | 1256789 | 1 | i02_1247 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 132 | - | + | CFT073 | ins | 1256798 | 1 | i02_1247 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 133 | + | - | CFT073 | del | 1259736 | 1 | i02_1250 | pabC | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 134 | - | + | CFT073 | ins | 1259830 | 1 | i02_1251 | yceG | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 135 | - | + | CFT073 | ins | 1344697 | 1 | i02_1357 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 136 | + | - | CFT073 | del | 1346650 | 12 | intergenic |  | + | ++++ | + | + | + | + | + | / | / | / | / | / | + | / | / | / | / | + | + | / | / | / | / | / | / | / |
| 137 | - | + | CFT073 | ins | 1358441 | 1 | i02_1383 |  | - | +++ | / | / | - | - | - | - | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / | / |
| 138 | - | + | CFT073 | ins | 1358461 | 1 | i02_1383 |  | - | +++ | / | / | - | - | - | - | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / | / |
| 139 | - | + | CFT073 | ins | 1358472 | 1 | i02_1383 |  | - | +++ | / | / | - | - | - | - | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / | / |
| 140 | - | + | CFT073 | ins | 1358524 | 1 | i02_1383 |  | - | +++ | / | / | - | - | - | - | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / | / |
| 141 | - | + | CFT073 | ins | 1358753 | 1 | i02_1384 |  | - | +++ | / | / | - | - | - | - | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / | / |
| 142 | + | - | CFT073 | del | 1378275 | 1 | i02_1415 |  | + | ++++ | / | + | + | + | + | / | + | / | / | / | + | / | + | + | + | + | + | / | / | + | / | / | / | / |
| 143 | + | - | CFT073 | del | 1378427 | 1 | i02_1415 |  | + | ++++ | / | + | + | + | + | / | + | / | / | / | + | / | + | + | + | + | + | / | / | + | / | / | / | / |
| 144 | + | - | CFT073 | del | 1378444 | 1 | i02_1415 |  | + | ++++ | / | + | + | + | + | / | + | / | / | / | + | / | + | + | + | + | + | / | / | + | / | / | / | / |
| 145 | + | - | CFT073 | del | 1378515 | 1 | i02_1415 |  | + | ++++ | / | + | + | + | + | / | + | / | / | / | + | / | + | + | + | + | + | / | / | + | / | / | / | / |
| 146 | + | - | CFT073 | del | 1393522 | 1 | i02_1430 | sitA | + | ++++ | + | + | + | + | + | / | / | / | / | + | + | / | / | / | / | / | + | + | + | + | + | + | + | + |
| 147 | + | - | CFT073 | del | 1393546 | 1 | i02_1430 | sitA | + | ++++ | + | + | + | + | + | / | / | / | / | + | + | / | / | / | / | / | + | + | + | + | + | + | + | + |

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
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| 148 | + | - | CFT073 | del | 1393554 | 1 | i02_1430 | sitA | + | ++++ | + | + | + | + | + | / | / | / | / | + | + | / | / | / | / | / | + | + | + | + | + | + | + | + |
| 149 | + | - | CFT073 | del | 1393563 | 1 | i02_1430 | sitA | + | ++++ | + | + | + | + | + | / | / | / | / | + | + | / | / | / | / | / | + | + | + | + | + | + | + | + |
| 150 | + | - | CFT073 | del | 1393615 | 1 | i02_1430 | sitA | + | ++++ | + | + | + | + | + | / | / | / | / | + | + | / | / | / | / | / | + | + | + | + | + | + | + | + |
| 151 | + | - | CFT073 | del | 1393636 | 1 | i02_1430 | sitA | + | ++++ | + | + | + | + | + | / | / | / | / | + | + | / | / | / | / | / | + | + | + | + | + | + | + | + |
| 152 | + | - | CFT073 | del | 1529699 | 1 | i02_1580 | pyrF | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 153 | - | + | clone D | del | 1541419 | 1 | i02_1593 |  | + | ++++ | + | + | + | + | + | + | / | / | / | + | + | / | / | / | / | + | / | / | / | / | + | / | / | / |
| 154 | - | + | CFT073 | ins | 1649103 | 1 | i02_1691 | ydcV | - | ++++ | - | - | - | - | - | - | - | - | - | - | / | - | - | - | - | - | - | / | - | - | - | / | - | - |
| 155 | - | + | CFT073 | ins | 1654282 | 1 | i02_1701 | yncD | - | ++++ | - | - | - | - | - | - | - | - | - | - | / | - | - | - | - | - | - | - | / | - | - | - | / | / |
| 156 | - | + | ? | indel | 1661875 | 1 | i02_1709 |  | ? | +/- | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 157 | - | + | ? | indel | 1662780 | 1 | intergenic |  | ? | +/- | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 158 | + | - | CFT073 | del | 1668910 | 1 | intergenic |  | + | + | / | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 159 | + | - | CFT073 | del | 1670104 | 1 | i02_1717 |  | + | +++ | + | + | + | + | + | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 160 | + | - | CFT073 | del | 1688286 | 3 | intergenic |  | + | ++++ | + | + | + | + | + | / | + | + | + | + | - | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 161 | - | + | CFT073 | ins | 1693716 | 1 | i02_1740 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | - | - | - |
| 162 | - | + | CFT073 | ins | 1694715 | 1 | i02_1740 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | - | / | - | / | / |
| 163 | + | - | CFT073 | del | 1701417 | 1 | intergenic |  | + | ++ | + | + | + | + | + | + | / | / | / | - | + | - | - | - | - | - | - | / | - | - | / | / | / | - |
| 164 | - | + | CFT073 | ins | 1724309 | 1 | i02_1761 | hipA | - | ++++ | - | - | - | - | - | - | - | - | - | / | / | / | - | - | - | - | - | / | / | - | - | - | / | / |
| 165 | - | + | CFT073 | ins | 1895916 | 1 | i02_1932 | pheT | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 166 | + | - | clone D | ins | 1961664 | 1 | intergenic |  | - | ++++ | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 167 | + | - | clone D | ins | 1961686 | 1 | intergenic |  | - | ++++ | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 168 | - | + | CFT073 | ins | 2010211 | 1 | intergenic |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 169 | - | + | CFT073 | ins | 2010225 | 3 | intergenic |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | - | + | CFT073 | ins | 2010257 | 1 | intergenic |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 171 | - | + | CFT073 | ins | 2025584 | 1 | i02_2078 | purK | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 172 | + | - | CFT073 | del | 2025609 | 1 | i02_2078 | purK | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
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| 173 | + | - | clone D | ins | 2071197 | 6 | i02_2126 | yecG | - | ++++ | - | - | - | - | - | - | - | / | - | - | - | - | - | - | - | - | - | - | - | - | - | / | / | / |
| 174 | - | + | clone D | del | 2148157 | 1 | intergenic | | + | + | / | + | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 175 | + | - | CFT073 | del | 2158529 | 1 | intergenic | | + | + | / | + | / | / | + | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 176 | + | - | clone D | ins | 2173925 | 9 | i02_2241 | | - | +++ | - | - | - | - | + | / | / | / | / | / | - | / | / | - | / | / | - | / | / | / | / | / | / | / |
| 177 | - | + | CFT073 | ins | 2177218 | 1 | i02_2242 | | - | ++++ | - | - | - | - | - | / | / | / | / | / | - | / | / | - | / | / | - | / | / | / | / | / | / | / |
| 178 | + | - | CFT073 | del | 2180042 | 1 | i02_2242 | | + | ++++ | + | + | + | + | + | / | / | / | / | / | + | / | / | + | / | / | + | / | / | / | / | / | / | / |
| 179 | + | - | CFT073 | del | 2180052 | 2 | i02_2242 | | + | ++++ | + | + | + | + | + | / | / | / | / | / | + | / | / | + | / | / | + | / | / | / | / | / | / | / |
| 180 | + | - | CFT073 | del | 2180060 | 2 | i02_2242 | | + | ++++ | + | + | + | + | + | / | / | / | / | / | + | / | / | + | / | / | + | / | / | / | / | / | / | / |
| 181 | + | - | CFT073 | del | 2187699 | 1 | i02_2246 | | + | ++++ | + | + | + | + | + | / | / | / | / | / | + | / | / | + | / | / | + | / | / | / | / | / | / | / |
| 182 | - | + | clone D | del | 2190262 | 1 | intergenic | | + | ++++ | + | + | + | + | + | / | / | / | / | / | + | / | / | + | / | / | + | / | / | / | / | / | / | / |
| 183 | + | - | CFT073 | del | 2194430 | 1 | i02_2251 | | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | / | / | + | / | / | / | / |
| 184 | + | - | CFT073 | del | 2194446 | 1 | i02_2251 | | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | / | / | + | / | / | / | / |
| 185 | - | + | CFT073 | ins | 2212027 | 1 | i02_2264 | | - | + | / | - | / | / | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 186 | - | + | CFT073 | ins | 2249329 | 1 | i02_2279 | | - | + | / | - | / | / | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 187 | + | - | CFT073 | del | 2255272 | 16 | intergenic | | + | + | / | + | / | / | + | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 188 | - | + | CFT073 | ins | 2272088 | 1 | intergenic | | - | + | / | - | / | / | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 189 | - | + | CFT073 | ins | 2272119 | 1 | intergenic | | - | + | / | - | / | / | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 190 | - | + | CFT073 | ins | 2272141 | 1 | intergenic | | - | + | / | - | / | / | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 191 | - | + | CFT073 | ins | 2281124 | 1 | intergenic | | - | ++++ | - | - | - | - | - | / | / | / | / | - | / | - | / | - | / | / | - | / | / | / | / | / | / | / |
| 192 | - | + | clone D | del | 2289140 | 1 | i02_2318 | | + | ++++ | / | + | + | + | + | / | / | / | / | + | + | + | / | + | / | / | / | / | / | / | / | / | / | / |
| 193 | - | + | clone D | del | 2297026 | 1 | intergenic | | + | +++ | / | + | + | + | + | / | / | / | / | + | + | / | / | + | / | / | / | / | / | / | / | / | / | / |
| 194 | + | - | CFT073 | del | 2362248 | 1 | i02_2386 | | + | ++++ | + | + | + | + | + | + | + | + | / | + | + | + | + | + | + | + | + | + | + | + | / | + | + | + |
| 195 | + | - | CFT073 | del | 2362290 | 1 | i02_2386 | | + | ++++ | + | + | + | + | + | + | + | + | / | + | + | + | + | + | + | + | + | + | + | + | / | + | + | + |
| 196 | + | - | CFT073 | del | 2362303 | 1 | i02_2386 | | + | ++++ | + | + | + | + | + | + | + | + | / | + | + | + | + | + | + | + | + | + | + | + | / | + | + | + |
| 197 | + | - | CFT073 | del | 2362896 | 1 | i02_2387 | | + | ++++ | + | + | + | + | + | + | + | + | / | + | + | + | + | + | + | + | + | + | + | + | / | + | + | + |

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
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| 198 | - | + | CFT073 | ins | 2485913 | 2 | i02_2500 | yeiN | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | / | - | - | - | - | - | - | / | - | - | - |
| 199 | + | - | CFT073 | del | 2658778 | 1 | i02_2665 | yfcJ | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | / | + | + | + | + | + | + | + | + | / | + | + | + |
| 200 | + | - | CFT073 | del | 2658814 | 1 | i02_2665 | yfcJ | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | / | + | + | + | + | + | + | + | + | / | + | + | + |
| 201 | - | + | ? | indel | 2686052 | 1 | i02_2693 |  | ? | +/- | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 202 | - | + | ? | indel | 2686086 | 1 | i02_2693 |  | ? | +/- | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 203 | - | + | ? | indel | 2686164 | 18 | i02_2693 |  | ? | +/- | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 204 | + | - | CFT073 | del | 2718016 | 1 | i02_2714 |  | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 205 | + | - | CFT073 | del | 2751344 | 1 | i02_2746 | cysK | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 206 | - | + | CFT073 | ins | 2751413 | 1 | intergenic |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 207 | - | + | CFT073 | ins | 2751487 | 1 | intergenic |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 208 | - | + | CFT073 | ins | 2752054 | 1 | i02_2749 | ptsI | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 209 | + | - | clone D | ins | 2852951 | 9 | i02_2837 | pbpC | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | / | - | / | / | / | / |
| 210 | - | + | CFT073 | ins | 2885705 | 1 | i02_2869 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 211 | - | + | CFT073 | ins | 2917217 | 1 | intergenic |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 212 | - | + | CFT073 | ins | 2926828 | 1 | rRNA_005 | rrl | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 213 | + | - | CFT073 | del | 2927085 | 1 | rRNA_005 | rrl | + | ++ | + | + | + | + | + | + | + | - | - | + | + | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 214 | + | - | CFT073 | del | 2927088 | 1 | rRNA_005 | rrl | + | ++ | + | + | + | + | + | + | + | - | - | + | + | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 215 | + | - | CFT073 | del | 2927224 | 13 | rRNA_005 | rrl | + | ++ | + | + | + | + | + | + | - | - | - | + | - | - | - | - | - | - | + | - | + | - | - | - | + | + |
| 216 | - | + | clone D | del | 2927237 | 13 | rRNA_005 | rrl | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 217 | - | + | CFT073 | ins | 2927786 | 1 | rRNA_005 | rrl | - | ++ | - | + | - | - | - | - | + | + | + | - | - | + | - | + | + | - | + | + | + | + | - | - | + | + |
| 218 | - | + | CFT073 | ins | 2928406 | 3 | rRNA_005 | rrl | - | ++ | - | + | - | + | - | - | + | + | + | + | - | + | + | + | + | - | - | + | + | + | - | + | + | + |
| 219 | + | - | CFT073 | del | 2928408 | 3 | rRNA_005 | rrl | + | ++ | + | + | + | + | + | + | / | - | - | + | + | - | - | - | - | - | + | - | - | - | + | - | - | - |
| 220 | - | + | CFT073 | ins | 2928417 | 1 | rRNA_005 | rrl | - | ++ | - | + | - | + | - | - | + | + | + | + | - | + | + | + | + | - | - | + | + | + | - | + | + | + |
| 221 | - | + | clone D | del | 2928977 | 2 | intergenic |  | + | ++++ | / | / | + | + | + | / | / | + | + | + | + | + | + | / | / | / | + | / | / | / | + | / | / | / |
| 222 | + | - | CFT073 | del | 2928978 | 16 | intergenic |  | + | ++ | + | + | + | + | + | + | + | - | - | + | - | - | - | + | + | - | - | + | + | + | - | + | + | + |

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
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| 223 | - | + | clone D | del | 2928978 | 5 | intergenic | | + | ++++ | / | / | + | + | + | / | / | + | + | + | + | + | + | / | / | / | + | / | / | / | + | / | / | / |
| 224 | + | - | CFT073 | del | 2929090 | 13 | intergenic | | + | ++ | + | + | + | - | + | + | - | - | + | + | + | - | - | + | + | - | + | + | + | + | + | + | + | + |
| 225 | - | + | ? | indel | 2929104 | 13 | intergenic | | ? | +/- | / | / | / | / | / | / | / | + | / | / | - | + | + | / | / | / | / | / | / | / | / | / | / | / |
| 226 | + | - | CFT073 | del | 2929226 | 20 | intergenic | | + | ++ | + | + | + | - | + | + | - | - | - | + | + | - | - | - | - | + | + | + | + | + | + | - | + | + |
| 227 | + | - | CFT073 | del | 2929450 | 1 | rRNA_006 | rrs | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 228 | + | - | CFT073 | del | 2929550 | 1 | rRNA_006 | rrs | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 229 | - | + | CFT073 | ins | 2930036 | 1 | rRNA_006 | rrs | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | - | + | CFT073 | ins | 2930063 | 1 | rRNA_006 | rrs | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 231 | - | + | CFT073 | ins | 2930079 | 1 | rRNA_006 | rrs | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 232 | - | + | CFT073 | ins | 2930102 | 1 | rRNA_006 | rrs | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 233 | - | + | CFT073 | ins | 2930210 | 1 | rRNA_006 | rrs | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 234 | - | + | CFT073 | ins | 2930267 | 1 | rRNA_006 | rrs | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 235 | - | + | CFT073 | ins | 2930289 | 1 | rRNA_006 | rrs | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 236 | - | + | CFT073 | ins | 2930305 | 1 | rRNA_006 | rrs | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 237 | - | + | CFT073 | ins | 2930427 | 1 | rRNA_006 | rrs | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 238 | - | + | CFT073 | ins | 2930474 | 1 | rRNA_006 | rrs | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 239 | - | + | CFT073 | ins | 2930497 | 1 | rRNA_006 | rrs | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 240 | + | - | CFT073 | del | 2969602 | 1 | i02_2955 | | + | ++++ | + | + | + | + | + | + | / | / | / | + | + | / | / | / | / | + | + | / | / | / | + | / | / | / |
| 241 | + | - | CFT073 | del | 2969636 | 1 | intergenic | | + | ++++ | + | + | + | + | + | / | / | / | / | + | + | / | / | / | / | + | - | / | / | / | + | / | / | / |
| 242 | - | + | CFT073 | ins | 2978621 | 1 | intergenic | | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 243 | - | + | CFT073 | ins | 2992303 | 1 | i02_2981 | alaS | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 244 | - | + | CFT073 | ins | 3004393 | 1 | i02_2995 | norV | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | - | - | - | - | - | - | - | - |
| 245 | - | + | CFT073 | ins | 3038925 | 5 | i02_3034 | | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 246 | - | + | CFT073 | ins | 3045109 | 2 | intergenic | | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 247 | - | + | clone D | del | 3068496 | 15 | i02_3065 | | + | ++++ | + | + | + | + | + | / | / | / | / | + | / | / | / | / | / | + | + | / | / | / | + | / | / | / |

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
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| 248 | - | + | CFT073 | ins | 3082607 | 1 | i02_3076 | ygcX | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 249 | - | + | CFT073 | ins | 3082619 | 1 | i02_3076 | ygcX | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | + | - | CFT073 | del | 3100943 | 1 | i02_3096 | fucK | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 251 | + | - | CFT073 | del | 3134313 | 1 | i02_3121 |  | + | +++ | / | + | + | + | + | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 252 | + | - | CFT073 | del | 3134331 | 1 | i02_3121 |  | + | +++ | / | + | + | + | + | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 253 | + | - | CFT073 | del | 3261304 | 1 | i02_3238 |  | + | ++++ | + | + | + | + | + | + | / | / | / | + | + | / | / | / | / | / | + | / | + | / | / | / | + | + |
| 254 | + | - | CFT073 | del | 3261317 | 1 | i02_3238 |  | + | ++++ | + | + | + | + | + | + | / | / | / | + | + | / | / | / | / | / | + | / | + | / | / | / | + | + |
| 255 | + | - | CFT073 | del | 3261350 | 2 | i02_3238 |  | + | ++++ | + | + | + | + | + | + | / | / | / | + | + | / | / | / | / | / | + | / | + | / | / | / | + | + |
| 256 | + | - | CFT073 | del | 3261357 | 1 | i02_3238 |  | + | ++++ | + | + | + | + | + | + | / | / | / | + | + | / | / | / | / | / | + | / | + | / | / | / | + | + |
| 257 | + | - | CFT073 | del | 3296532 | 12 | i02_3275 |  | + | + | / | / | + | + | / | / | / | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 258 | - | + | ? | indel | 3298504 | 1 | intergenic |  | ? | +/- | / | + | - | - | + | / | / | / | / | / | - | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 259 | + | - | CFT073 | del | 3300102 | 1 | intergenic |  | + | +++ | / | + | + | + | + | / | / | / | / | / | + | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 260 | - | + | clone D | del | 3300420 | 1 | i02_3284 |  | + | +++ | / | + | + | + | + | / | / | / | / | / | - | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 261 | + | - | CFT073 | del | 3302284 | 1 | i02_3287 |  | + | ++++ | + | + | + | + | + | + | / | / | / | + | + | + | / | + | / | + | - | + | + | + | + | + | + | + |
| 262 | + | - | ? | indel | 3303805 | 8 | i02_3289 |  | ? | +/- | / | / | - | / | + | / | / | / | / | + | + | / | / | / | / | / | - | + | / | + | + | + | / | + |
| 263 | + | - | CFT073 | del | 3307276 | 1 | i02_3294 |  | + | ++++ | / | / | / | / | + | / | / | + | / | + | - | + | / | / | / | + | - | + | + | + | + | + | + | + |
| 264 | - | + | clone D | del | 3311423 | 5 | intergenic |  | + | +++ | + | / | / | / | / | / | / | / | / | / | / | / | / | + | / | + | + | + | / | / | / | + | / | / |
| 265 | - | + | clone D | del | 3326445 | 1 | intergenic |  | + | ++++ | + | / | / | / | / | / | / | / | / | - | - | / | / | + | / | / | + | + | + | + | / | + | + | + |
| 266 | + | - | CFT073 | del | 3336055 | 1 | i02_3326 |  | + | ++ | + | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 267 | + | - | CFT073 | del | 3336093 | 1 | i02_3326 |  | + | ++ | + | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 268 | + | - | CFT073 | del | 3336107 | 1 | i02_3326 |  | + | ++ | + | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 269 | + | - | CFT073 | del | 3336128 | 1 | i02_3326 |  | + | ++ | + | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 270 | + | - | CFT073 | del | 3336135 | 1 | i02_3326 |  | + | ++ | + | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 271 | + | - | CFT073 | del | 3336142 | 1 | i02_3326 |  | + | ++ | + | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 272 | + | - | CFT073 | del | 3336159 | 1 | i02_3326 |  | + | ++ | + | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 273 | + | - | CFT073 | del | 3336176 | 1 | i02_3326 | | + | ++ | + | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 274 | + | - | CFT073 | del | 3336181 | 1 | i02_3326 | | + | ++ | + | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 275 | + | - | CFT073 | del | 3336202 | 1 | i02_3326 | | + | ++ | + | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 276 | + | - | CFT073 | del | 3336311 | 1 | i02_3326 | | + | ++ | + | / | / | / | + | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 277 | - | + | CFT073 | ins | 3337181 | 1 | i02_3328 | | - | ++ | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 278 | - | + | CFT073 | ins | 3337246 | 1 | i02_3328 | | - | ++ | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 279 | - | + | CFT073 | ins | 3337294 | 1 | i02_3328 | | - | ++ | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 280 | - | + | clone D | del | 3344259 | 1 | intergenic | | + | ++ | + | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 281 | - | + | CFT073 | ins | 3344306 | 2 | intergenic | | - | ++ | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 282 | - | + | CFT073 | ins | 3344350 | 2 | intergenic | | - | ++ | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 283 | - | + | CFT073 | ins | 3344364 | 1 | intergenic | | - | ++ | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 284 | - | + | CFT073 | ins | 3344381 | 1 | intergenic | | - | ++ | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 285 | + | - | CFT073 | del | 3348189 | 1 | i02_3340 | | + | +++ | / | + | / | / | + | / | / | / | + | / | / | + | / | + | / | / | + | / | / | / | / | / | + | + |
| 286 | + | - | CFT073 | del | 3348569 | 1 | intergenic | | + | +++ | / | / | / | / | + | / | / | / | + | + | / | + | / | - | / | / | + | / | / | / | / | / | / | / |
| 287 | + | - | CFT073 | del | 3349813 | 1 | intergenic | | + | +++ | / | / | / | / | + | / | / | / | + | / | / | / | / | + | / | / | + | / | / | / | / | / | / | / |
| 288 | + | - | ? | indel | 3350480 | 5 | intergenic | | ? | +/- | / | / | - | / | + | / | / | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 289 | - | + | ? | indel | 3350750 | 14 | intergenic | | ? | +/- | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 290 | - | + | CFT073 | ins | 3350827 | 7 | i02_3344 | | - | + | / | / | / | / | / | / | / | / | / | / | - | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 291 | + | - | ? | indel | 3350918 | 6 | intergenic | | ? | +/- | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 292 | + | - | ? | indel | 3359351 | 1 | intergenic | | ? | +/- | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 293 | + | - | CFT073 | del | 3364637 | 1 | i02_3359 | | + | ++++ | + | + | + | + | + | / | / | + | + | - | + | + | / | + | / | + | - | / | / | / | + | + | / | / |
| 294 | - | + | clone D | del | 3364699 | 1 | i02_3359 | | + | ++ | + | - | + | - | + | / | / | - | + | + | + | + | / | + | / | + | + | / | / | / | + | - | / | / |
| 295 | - | + | CFT073 | indel | 3367923 | 1 | i02_3364 | | ? | +/- | / | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | - | / | / | / | / | / | / | / |
| 296 | + | - | clone D | ins | 3387223 | 1 | intergenic | | - | ++ | - | - | + | + | + | / | / | / | / | - | - | / | / | / | / | / | - | / | / | / | / | / | / | / |
| 297 | - | + | CFT073 | ins | 3387673 | 1 | intergenic | | - | ++++ | - | - | - | - | - | / | / | / | / | - | - | / | / | / | / | / | - | / | / | / | / | / | / | / |

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 298 | + | - | CFT073 | del | 3389261 | 1 | i02_3380 | gspL | + | ++++ | + | + | + | + | + | + | / | + | + | + | + | + | + | + | + | / | + | + | / | / | + | + | / | / |
| 299 | - | + | CFT073 | ins | 3415674 | 5 | i02_3402 | yghO | - | ++++ | - | - | - | - | - | - | + | / | + | - | - | - | - | / | - | / | - | / | - | / | / | / | - | - |
| 300 | - | + | clone D | del | 3415911 | 1 | intergenic |  | + | ++ | + | + | + | + | + | + | + | / | + | - | - | - | - | / | - | / | + | / | - | / | / | / | - | - |
| 301 | - | + | CFT073 | ins | 3450140 | 1 | i02_3439 | yqhG | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | - | - | - |
| 302 | - | + | CFT073 | ins | 3525549 | 1 | i02_3514 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 303 | - | + | CFT073 | ins | 3525566 | 1 | i02_3514 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 304 | + | - | CFT073 | del | 3561339 | 1 | i02_3550 | yqjF | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 305 | - | + | CFT073 | ins | 3562225 | 2 | i02_3551 | yqjG | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 306 | - | + | CFT073 | ins | 3567159 | 1 | i02_3557 |  | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 307 | - | + | CFT073 | ins | 3629787 | 1 | i02_3621 | hflB | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 308 | + | - | CFT073 | del | 3704908 | 3 | i02_3698 |  | + | ++++ | + | + | + | + | + | / | / | / | / | / | + | / | / | / | / | / | / | + | / | / | / | + | / | / |
| 309 | + | - | CFT073 | del | 3726492 | 1 | rRNA_008 | rrl | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 310 | - | + | CFT073 | ins | 3728030 | 1 | rRNA_008 | rrl | - | ++ | - | + | - | - | - | - | + | + | + | - | - | + | - | + | + | - | + | + | + | + | - | - | + | + |
| 311 | - | + | CFT073 | ins | 3728661 | 1 | rRNA_008 | rrl | - | ++ | - | + | + | - | + | - | + | + | + | - | - | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 312 | - | + | CFT073 | ins | 3729221 | 2 | intergenic |  | - | ++ | - | - | + | - | + | - | - | + | + | + | + | + | + | - | - | - | + | - | - | - | + | - | - | - |
| 313 | + | - | CFT073 | del | 3729227 | 11 | intergenic |  | + | ++++ | + | + | + | + | + | + | + | / | / | + | / | / | / | + | + | + | + | + | / | / | / | / | / | / |
| 314 | - | + | CFT073 | ins | 3809580 | 1 | i02_3825 | yhfZ | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | - | - | - | - | - | - | - | - |
| 315 | - | + | clone D | del | 3913324 | 6 | i02_3927 | ftsY | + | ++ | + | + | + | + | + | + | + | - | + | + | + | + | + | + | + | + | + | - | / | + | + | + | + | + |
| 316 | + | - | CFT073 | del | 3933212 | 1 | i02_3950 |  | + | ++++ | / | / | + | + | + | / | / | / | / | + | + | / | / | / | / | + | + | / | / | / | / | / | / | / |
| 317 | - | + | CFT073 | ins | 4141078 | 2 | intergenic |  | - | ++++ | - | - | - | - | - | - | / | / | / | - | - | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 318 | + | - | clone D | ins | 4145486 | 1 | intergenic |  | - | ++ | - | / | - | - | - | + | / | / | / | / | - | / | / | / | / | + | / | / | - | - | - | / | - | - |
| 319 | + | - | clone D | ins | 4145592 | 1 | intergenic |  | - | +++ | / | - | / | / | + | / | / | / | / | / | - | / | / | / | / | / | / | / | - | - | - | / | - | - |
| 320 | - | + | ? | indel | 4145717 | 1 | intergenic |  | ? | +/- | / | / | / | / | / | / | / | / | / | / | + | / | / | / | / | - | / | / | + | + | + | / | + | + |
| 321 | - | + | CFT073 | ins | 4196764 | 1 | i02_4207 | dgoA | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | - | / | - | - | / | / | - | - |
| 322 | - | + | CFT073 | ins | 4199528 | 1 | i02_4210 |  | - | ++++ | - | - | - | - | - | - | / | / | / | - | - | / | / | / | / | / | - | / | / | / | / | / | / | / |

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 323 | + | - | CFT073 | del | 4199642 | 1 | i02_4210 | | + | ++++ | + | + | + | + | + | + | / | / | / | + | + | / | / | / | / | / | + | / | / | / | / | / | / | / |
| 324 | - | + | CFT073 | ins | 4206704 | 1 | i02_4217 | yfgE | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 325 | - | + | CFT073 | ins | 4266091 | 1 | rRNA_010 | rrs | - | ++++ | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 326 | - | + | CFT073 | ins | 4267075 | 1 | rRNA_011 | rrl | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 327 | - | + | CFT073 | ins | 4267207 | 1 | rRNA_011 | rrl | - | ++ | - | + | - | + | - | - | + | + | + | - | - | + | + | + | + | - | - | + | + | + | - | + | + | + |
| 328 | + | - | CFT073 | del | 4267213 | 5 | rRNA_011 | rrl | + | ++ | + | + | + | + | + | + | + | - | - | - | + | - | - | - | - | + | + | - | - | - | / | - | / | - |
| 329 | - | + | CFT073 | ins | 4267220 | 5 | rRNA_011 | rrl | - | ++ | - | + | - | + | - | - | + | + | + | - | - | + | + | + | + | - | - | + | + | + | - | + | + | + |
| 330 | - | + | CFT073 | ins | 4267838 | 1 | rRNA_011 | rrl | - | ++ | - | - | - | - | - | - | + | + | + | - | - | + | - | + | + | - | - | + | + | + | - | - | + | + |
| 331 | - | + | CFT073 | ins | 4268433 | 1 | rRNA_011 | rrl | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 332 | - | + | CFT073 | ins | 4272677 | 1 | i02_4279 | yifB | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 333 | - | + | CFT073 | ins | 4308484 | 1 | intergenic | | - | ++++ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 334 | - | + | clone D | del | 4310013 | 6 | i02_4315 | hemX | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | - | + | + | + | + | + | + | + | + | + | + |
| 335 | - | + | CFT073 | ins | 4383360 | 1 | rRNA_013 | rrs | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 336 | - | + | CFT073 | ins | 4385386 | 1 | rRNA_014 | rrl | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 337 | - | + | CFT073 | ins | 4385393 | 1 | rRNA_014 | rrl | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 338 | - | + | CFT073 | ins | 4386142 | 1 | rRNA_014 | rrl | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 339 | - | + | CFT073 | ins | 4386250 | 1 | rRNA_014 | rrl | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 340 | + | - | CFT073 | del | 4394962 | 1 | i02_4402 | xni | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 341 | + | - | clone D | ins | 4520822 | 1 | intergenic | | - | ++++ | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 342 | - | + | clone D | del | 4520842 | 1 | intergenic | | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 343 | - | + | clone D | del | 4520877 | 1 | intergenic | | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 344 | - | + | CFT073 | ins | 4522159 | 1 | rRNA_016 | rrs | - | ++++ | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 345 | - | + | CFT073 | ins | 4522197 | 1 | rRNA_016 | rrs | - | ++++ | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 346 | - | + | CFT073 | ins | 4522200 | 1 | rRNA_016 | rrs | - | ++++ | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 347 | - | + | CFT073 | ins | 4522223 | 1 | rRNA_016 | rrs | - | ++++ | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 348 | - | + | CFT073 | ins | 4522239 | 1 | rRNA_016 | rrs | - | ++++ | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 349 | - | + | CFT073 | ins | 4522262 | 2 | rRNA_016 | rrs | - | ++++ | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | - | + | CFT073 | ins | 4522267 | 1 | rRNA_016 | rrs | - | ++++ | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 351 | - | + | CFT073 | ins | 4523421 | 1 | rRNA_017 | rrl | - | ++ | - | + | + | + | + | - | + | + | + | - | - | + | + | + | + | - | - | + | + | + | + | + | + | + |
| 352 | + | - | CFT073 | del | 4523427 | 2 | rRNA_017 | rrl | + | ++ | + | + | + | + | + | + | + | - | - | + | + | - | - | - | - | - | + | - | - | - | + | - | - | - |
| 353 | - | + | CFT073 | ins | 4523431 | 1 | rRNA_017 | rrl | - | ++ | - | + | - | + | - | - | + | + | + | - | - | + | + | + | + | - | - | + | + | + | - | + | + | + |
| 354 | - | + | CFT073 | ins | 4523432 | 1 | rRNA_017 | rrl | - | ++ | - | + | - | + | - | - | + | + | + | - | - | + | + | + | + | - | - | + | + | + | - | + | + | + |
| 355 | - | + | CFT073 | ins | 4524052 | 1 | rRNA_017 | rrl | - | ++ | - | + | - | + | - | - | + | + | + | - | - | + | - | + | + | - | + | + | + | + | - | - | + | + |
| 356 | + | - | CFT073 | del | 4524601 | 13 | rRNA_017 | rrl | + | ++ | + | + | + | + | + | + | - | - | - | + | - | + | - | + | - | - | - | - | + | - | - | - | - | + |
| 357 | - | + | CFT073 | ins | 4524614 | 13 | rRNA_017 | rrl | - | ++ | - | + | - | - | - | - | + | + | + | + | + | + | + | + | + | + | + | + | - | + | + | + | - | - |
| 358 | + | - | CFT073 | del | 4524748 | 1 | rRNA_017 | rrl | + | ++ | + | - | + | - | + | + | + | + | - | + | + | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 359 | + | - | CFT073 | del | 4524752 | 1 | rRNA_017 | rrl | + | ++ | + | - | + | - | + | + | + | + | - | + | + | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 360 | - | + | CFT073 | ins | 4562895 | 1 | intergenic |  | - | ++ | - | - | - | + | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 361 | - | + | CFT073 | ins | 4564223 | 1 | rRNA_020 | rrl | - | ++ | - | - | - | + | - | - | + | + | + | - | - | + | - | + | + | - | + | + | + | + | - | - | + | + |
| 362 | - | + | CFT073 | ins | 4564736 | 1 | rRNA_020 | rrl | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 363 | - | + | CFT073 | ins | 4564756 | 1 | rRNA_020 | rrl | - | ++++ | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 364 | - | + | CFT073 | ins | 4634107 | 1 | intergenic |  | - | ++ | - | + | + | + | + | + | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 365 | + | - | clone D | ins | 4671388 | 1 | intergenic |  | - | +++ | - | - | / | / | / | / | - | - | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 366 | + | - | clone D | ins | 4680413 | 10 | intergenic |  | - | ++++ | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | / | - | - |
| 367 | + | - | CFT073 | del | 4790012 | 1 | i02_4776 | yjfL | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | / | / | + | + | + |
| 368 | + | - | CFT073 | del | 4790954 | 1 | i02_4778 | yjfC | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 369 | - | + | CFT073 | ins | 4868672 | 1 | i02_4861 |  | - | +++ | - | - | / | - | - | - | / | / | / | / | - | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 370 | - | + | CFT073 | ins | 4988920 | 1 | i02_4950 |  | - | +++ | - | - | / | - | - | - | / | / | / | / | - | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 371 | - | + | CFT073 | ins | 4988958 | 1 | i02_4950 |  | - | +++ | - | - | / | - | - | - | / | / | / | / | - | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 372 | - | + | clone D | del | 5038168 | 1 | i02_5003 | lasT | + | ++++ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

| Indel No. | Clone D[a] | CFT073 [a] | Lineage | type | site[b] | size | Locus_tag | Gene | Inferred ancestral[c] | Support level[d] | ED1a | 536 | S88 | APEC O1 | UTI89 | E2348/69 | ATCC8739 | K-12 | HS | SMS3-5 | IAI39 | E24377A | SE11 | 55989 | IAI1 | Sakai | UMN026 | B4 Sb227 | F5 8401 | SS Ss046 | D1 Sd197 | B18 BS512 | F2a 2457T | F2a 301 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

[a] "+" indicates the block present, "-" indicates the block absent, "/" indicates the block and nearby sequence absent.

[b] Using the clone D_i2 genome as reference.For indels the base indicated is the base before the insertion or deletion.

[c] Presence or absence of indel block in clone D/CFT073 ancestor as inferred from outgroup analysis.

[d] Level of support for allocation of indel blocks as given in previous column.
"++++" agreement is high-8 or more outgroup strains with expected type and at most 2 with the opposite, and ED1a agrees or site not present
"+++" agreement good-4 or more outgroup strains with expected type and at most 2 with the opposite, and ED1a agrees or site not present
"++" agreement in ED1a regardless of situation with other outgroup strains
"+" no conflict but very limited support as either the block and nearby sequence absent in ED1a, and/or outgroup support less than given above
"+/-" no conflict but no support (the block and its nearby sequence not present in any outgroup OR both alternative lineages supported equally).