**Table S3**. cgMLST targets differing between ST23 isolated in Cesano Maderno (2008) and Bresso (2018) LD outbreaks

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Target** | **Begin** | **End** | **Gene name** | **GenBank** **protein\_ID** | **cgMLST allele number ST2695** | **cgMLST allele number ST23** |
| Differing targets in 4,3Kb recombination region |
| lpg0561 | 600719 | 601465 | phaB | YP\_094602.1 | 10 | 6 |
| lpg0562 | 601595 | 601993 |  | YP\_094603.1 | 9 | 2 |
| lpg0563 | 602138 | 602494 |  | YP\_094604.1 | 12 | 11 |
| lpg0564 | 602739 | 603809 |  | YP\_094605.1 | 13 | 7 |
| lpg0565 | 603867 | 604484 |  | YP\_094606.1 | 22 | 21 |
| lpg0566 | 604481 | 605014 |  | YP\_094607.1 | 24 | 2 |
| Differing targets in 4,4Kb recombination region |
| lpg1136 | 1250582 | 1251484 |  | YP\_095169.1 | 11 | 38 |
| lpg1137 | 1252018 | 1252986 |  | YP\_095170.1 | 34 | 35 |
| lpg1138 | 1253246 | 1254268 |  | YP\_095171.1 | 11 | 6 |
| lpg1139 | 1254265 | 1255032 |  | YP\_095172.1 | 9 | 6 |
| Differing targets in 13,7Kb recombination region |
| lpg2439 | 2755062 | 2755613 |  | YP\_096447.1 | 8 | 5 |
| lpg2442 | 2757333 | 2757743 |  | YP\_096450.1 | 9 | 5 |
| lpg2443 | 2757867 | 2758424 |  | YP\_096451.1 | 25 | 26 |
| lpg2446 | 2759982 | 2760260 |  | YP\_096454.1 | 19 | 20 |
| lpg2450 | 2762115 | 2762843 | - | YP\_096457.1 | 7 | 5 |
| lpg2451 | 2762922 | 2763890 | - | YP\_096458.1 | 13 | 6 |
| lpg2452 | 2764049 | 2766814 | legA14 | YP\_096459.1 | 13 | 7 |
| lpg2453 | 2767580 | 2768029 | - | YP\_096460.1 | 9 | 5 |
| lpg2454 | 2768334 | 2768780 | - | YP\_096461.1 | 19 | 5 |
| Differing targets in 8,6Kb recombination region |
| lpg2529 | 2859811 | 2861529 | - | YP\_096536.1 | 13 | 14 |
| lpg2530 | 2862296 | 2863339 | aroF | YP\_096537.1 | 8 | 5 |
| lpg2534 | 2866611 | 2867042 | - | YP\_096541.1 | 5 | 2 |
| lpg2535 | 2867089 | 2867496 | - | YP\_096542.1 | 22 | 23 |