**Additional file 9: Table S5. *Xtg* core singleton CDS which encode hypothetical proteins or IS elements.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Gene ID** | **Description** | **Feature1** | **Homology2** |
| XTGART29\_0086 | hypothetical protein |  | X |
| XTGART29\_0111 | hypothetical secreted protein |  |  |
| XTGART29\_0151 | hypothetical protein |  |  |
| XTGART29\_0171 | hypothetical protein | S | X, O |
| XTGART29\_0361 | hypothetical protein |  |  |
| XTGART29\_0366 | hypothetical protein | S |  |
| XTGART29\_0367 | conserved hypothetical protein | S | X, O |
| XTGART29\_0368 | hypothetical protein |  |  |
| XTGART29\_0435 | hypothetical protein | S | O |
| XTGART29\_0439 | hypothetical protein |  |  |
| XTGART29\_0440 | hypothetical protein |  |  |
| XTGART29\_0442 | hypothetical protein |  |  |
| XTGART29\_0481 | hypothetical protein |  | X, O |
| XTGART29\_0951 | hypothetical protein | S |  |
| XTGART29\_1034 | hypothetical protein | S | X, O |
| XTGART29\_1069 | hypothetical protein |  |  |
| XTGART29\_1449 | hypothetical protein |  |  |
| XTGART29\_1533 | hypothetical protein |  |  |
| XTGART29\_1644 | conserved hypothetical protein |  | X, O |
| XTGART29\_1645 | conserved hypothetical protein |  | X |
| XTGART29\_1646 | conserved hypothetical protein |  | X |
| XTGART29\_1647 | conserved hypothetical protein |  | X |
| XTGART29\_1885 | hypothetical protein |  |  |
| XTGART29\_1894 | hypothetical protein |  | O |
| XTGART29\_1895 | hypothetical protein |  | O |
| XTGART29\_1902 | hypothetical protein |  | X |
| XTGART29\_1973 | hypothetical protein |  |  |
| XTGART29\_1979 | hypothetical protein |  |  |
| XTGART29\_2046 | hypothetical protein |  |  |
| XTGART29\_2127 | hypothetical protein |  |  |
| XTGART29\_2346 | hypothetical protein |  |  |
| XTGART29\_2347 | hypothetical protein |  | X |
| XTGART29\_2348 | hypothetical protein |  | X, O |
| XTGART29\_2589 | hypothetical protein |  |  |
| XTGART29\_2591 | hypothetical protein |  | X, O |
| XTGART29\_2733 | hypothetical protein | S | X |
| XTGART29\_2803 | hypothetical protein |  |  |
| XTGART29\_2912 | hypothetical protein |  |  |
| XTGART29\_3229 | hypothetical protein | S |  |
| XTGART29\_3261 | hypothetical protein |  |  |
| XTGART29\_3280 | hypothetical protein |  | X |
| XTGART29\_3529 | hypothetical protein |  | X |
| XTGART29\_1904 | integrase |  | X, O |
| XTGART29\_1905 | transposase |  | X, O |

1 Features describing the presence of a signal peptide (S).

2 Homology to at least one other *Xanthomonas* species (X) or another bacterial genus (O; E-value < 10-50).