**Supplementary Table S1.** ORFs on pKUNFF30-6 and their putative products.

| ORF | Location       | Gene Name       | Annotation/Product name                                      | Size (aa) |
|-----|----------------|----------------|---------------------------------------------------------------|-----------|
| 1   | 566..928       |                | Hypothetical protein                                          | 120       |
| 2   | 979..1557      |                | DNA invertase-like protein                                    | 192       |
| 3   | Complement     |                | Hypothetical protein                                          | 288       |
|     | (1642..2508)   |                |                                                               |           |
| 4   | Complement     |                | Hypothetical protein                                          | 157       |
|     | (2560..3033)   |                |                                                               |           |
| 5   | Complement     |                | Hypothetical protein                                          | 92        |
|     | (3328..3606)   |                |                                                               |           |
| 6   | 3867..4667     |                | Hypothetical protein                                          | 266       |
| 7   | Complement     |                | Hypothetical protein                                          | 267       |
|     | (4949..5752)   |                |                                                               |           |
| 8   | 6284..7096     |                | Replication initiator protein A                               | 270       |
| 9   | 7093..7413     |                | Hypothetical protein                                          | 106       |
| 10  | Complement     | *kukP*         | Leader peptidase, KukP                                        | 454       |
|     | (7612..8976)   |                |                                                               |           |
| 11  | Complement     | *kukA*         | Lantibiotic kunkecin A precursor, KukA                        | 64        |
|     | (9083..9277)   |                |                                                               |           |
| 12  | Complement     | *kukC*         | Lantibiotic cyclase, KukC                                     | 437       |
|     | (9356..10669)  |                |                                                               |           |
| 13  | Complement     | *kukT*         | ABC transporter protein, KukT                                  | 577       |
|     | (10662..12395) |                |                                                               |           |
| 14  | 12511..13194   | *kukF*         | Self-immunity protein, KukF                                   | 227       |
| 15  | 13197..13922   | *kukE*         | Self-immunity protein, KukE                                   | 241       |
| 16  | 13919..14656   | *kukG*         | Self-immunity protein, KukG                                   | 245       |
| 17  | 14667..17657   | *kukB*         | Lantibiotic dehydratase, KukB                                 | 996       |
| 18  | 17885..19342   |                | Hypothetical protein                                          | 485       |