Supplemental table 4: Disposition of Pathogenicity Islands and Mobile Genetic Elements in *S. aureus* strain JP1

| Island/MGE | Comments |
| --- | --- |
| SCC*mec* | Not present |
| ΦCOL | 62 of 72 *orfs* absent. The 10 present code for unknown functions |
| νSaα | Contains 5' genes from Type II (MW0368 - MW0381 except for MW0376) but contains only *set18*, *20*, *23*. These are same as *set8*, *10* and *12* of *N316*. Has *set7-13*, *set15* of Type I of N315, so region is a mix of type I and II. Missing restriction mod system *hsdM*, *hsdS*. Missing lipoprotein cluster *lpl1-9* (N315) or *lpl10-14* (MW2). |
| νSaβ | Type II but contains *splA* and *splC* (type I) |
| νSaγ | Complete except missing COL-SA1163 |
| φSa1mu | 58 of 71 genes not found. Of 13 present, 10 are also in φCOL or φSa□. |
| φSa2mw | Not present in JP1, but 3 genes of unknown function located in φSa2mw are found in JP1 |
| φSa3 | Similar to MW2, but contains 11 alleles found in N315 version |
| φSa4 | Not found in JP1 |