**Figure S1.** (A) Confirmation of *Hind*III insertion near *pikRII* with *aprR* check primers shown in Table 2*.* The expected amplicon size of mutant and wildtypeis 1.5kb and 360bp, respectively.; lane 1, 100 bp loading DNA ladder (DYNEBIO Inc.); lane 2 and 4, PCR products from *S. venezuelae* tDNA; lane 3 and 5, PCR products from *S. venezuelae* HindbactDNA; lane 4 and 5, *Hind*III digested PCR products. (B) Confirmation of integration of pSAPDK in the vicinity of *pikD*; lane 1, 1 kb DNA ladder (cosmogenetech); lane 2, PCR product from *S. venezuelae* HindbactDNA; lane 3, PCR product from *S. venezuelae* tDNA.

**Figure S1.**

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