**Supplemental File 1. Information of the strains used in the study**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Strain Name | Serotype | Isolated from | | Disease/ Clinical Manifestation | Year of isolation | Reference |
| Host | Sample |
| 05ZYH33 | 2 | Pig | Brain | Diseased | 2005 | 1 |
| 4961 | 3 | Pig |  | Diseased |  | 2 |
| J99 | 7 | Pig | Lung | Pneumonia | 2008 |  |
| D12 | 9 | Pig |  |  |  | 3 |
| SS12 | 1/2 | Pig |  |  |  | 3 |

**Reference**

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3. Zhang A, Yang M, Hu P, et al. Comparative genomic analysis of Streptococcus suis reveals significant genomic diversity among different serotypes. BMC genomics **2011**; 12:523.