

Table S1. Sequence similarity of 16S rRNA gene and housekeeping genes and ANI values among genomes that the present study used.

No.	Strains	Sequence similarity (%) of 16S rRNA gene with strains No.																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	<i>S. parasuis</i> BS26																		
2	<i>S. parasuis</i> BS27	100.0																	
3	<i>S. parasuis</i> SUT-7	99.4	99.4																
4	<i>S. parasuis</i> SUT-286	98.9	98.9	99.2															
5	<i>S. parasuis</i> SUT-328	99.5	99.5	99.2	99.2														
6	<i>S. parasuis</i> 86- 5192	98.9	98.9	100.0	100.0	99.2													
7	<i>S. parasuis</i> 88- 1861	99.2	99.2	99.2	99.2	99.6	99.1												
8	<i>S. parasuis</i> 89- 4109-1	98.9	98.9	100.0	100.0	99.2	100.0	99.5											
9	<i>S. parasuis</i> 4253	99.3	99.3	99.5	99.5	99.0	99.5	98.8	99.5										

10	<i>S. parasuis</i> 2674	99.2	99.2	99.2	99.2	99.6	99.1	100.0	99.1	99.1								
11	<i>S. parasuis</i> 10- 36905	98.9	98.9	100.0	100.0	99.2	100.0	99.5	99.5	99.5	99.6							
12	<i>S. parasuis</i> SUT-447	99.6	99.6	98.8	98.8	99.3	98.8	99.1	98.8	98.9	99.1	98.8						
13	<i>S. parasuis</i> SUT-462	98.9	98.9	100.0	100.0	99.2	100.0	99.1	100.0	99.5	99.1	100.0	98.8					
14	<i>S. parasuis</i> SUT-479	99.4	99.4	99.3	99.3	99.9	99.3	99.7	99.3	98.9	99.7	99.3	99.4	99.3				
15	<i>S. parasuis</i> SUT-481	98.9	98.9	99.9	99.9	99.2	99.9	99.1	99.9	99.5	99.1	99.9	98.8	99.9	99.4			
16	<i>S. parasuis</i> SUT-483	99.1	99.1	99.6	99.6	99.6	99.6	99.2	99.6	99.1	99.2	99.6	99.0	99.6	99.5	99.5		
17	<i>S. suis</i> NCTC10234	96.6	96.6	97.6	97.6	97.0	97.6	97.1	97.1	97.1	97.3	97.6	96.5	97.6	97.0	97.6	97.3	
18	<i>E. faecalis</i> JCM_5803	89.1	89.1	89.1	89.1	88.9	89.4	89.3	89.3	89.3	89.3	89.4	88.9	89.4	89.3	89.5	89.3	89.1

No.	Strains	Sequence similarity (%) of <i>groEL</i> with strains No.													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	<i>S. parasuis</i> BS26														
2	<i>S. parasuis</i> BS27	100.0													
3	<i>S. parasuis</i> SUT-7	96.9	96.9												
4	<i>S. parasuis</i> SUT-286	97.6	97.6	97.8											
5	<i>S. parasuis</i> SUT-319	94.2	94.2	94.4	95.0										
6	<i>S. parasuis</i> SUT-328	94.2	94.2	94.4	95.0	100.0									
7	<i>S. parasuis</i> SUT-380	94.2	94.2	94.4	95.0	100.0	100.0								
8	<i>S. parasuis</i> 86-5192	96.0	96.0	96.0	96.9	94.0	94.0	94.0							
9	<i>S. parasuis</i> 88-1861	96.1	96.1	96.2	96.9	94.2	94.2	94.2	99.5						
10	<i>S. parasuis</i> 89-4109-1	96.0	96.0	96.0	96.9	94.0	94.0	94.0	100.0	99.5					

11	<i>S. parasuis</i> 4253	98.4	98.4	97.2	97.8	94.4	94.4	94.4	96.2	96.5	96.2			
12	<i>S. parasuis</i> 2674	94.2	94.2	94.6	95.1	99.7	99.7	99.7	94.0	94.3	94.0	94.5		
13	<i>S. parasuis</i> 10-36905	96.0	96.0	96.0	96.9	94.0	94.0	94.0	100.0	99.5	100.0	96.2	94.0	
14	<i>S. suis</i> NCTC10234	91.5	91.5	92.0	91.6	93.0	93.0	93.0	91.9	91.7	91.9	91.4	93.0	91.9

		Sequence similarity (%) of <i>gryB</i> with strains No.													
No.	Strains	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	<i>S. parasuis</i> BS26														
2	<i>S. parasuis</i> BS27	100.0													
3	<i>S. parasuis</i> SUT-7	97.5	97.5												
4	<i>S. parasuis</i> SUT-286	97.6	97.6	97.3											
5	<i>S. parasuis</i> SUT-319	97.6	97.6	98.4	97.6										
6	<i>S. parasuis</i> SUT-328	97.6	97.6	98.4	97.6	100.0									

7	<i>S. parasuis</i> SUT-380	98.0	98.0	97.9	98.1	98.6	98.6								
8	<i>S. parasuis</i> 86-5192	97.8	97.8	97.7	97.8	98.2	98.2	99.6							
9	<i>S. parasuis</i> 88-1861	97.5	97.5	97.9	98.1	98.0	98.0	98.3	97.8						
10	<i>S. parasuis</i> 89-4109-1	97.5	97.5	98.3	97.3	99.1	99.1	99.0	98.6	98.1					
11	<i>S. parasuis</i> 4253	99.1	99.1	97.2	97.4	97.2	97.2	97.8	97.7	97.2	97.4				
12	<i>S. parasuis</i> 2674	97.3	97.3	97.4	98.9	97.7	97.7	98.1	97.8	98.5	97.6	97.0			
13	<i>S. parasuis</i> 10-36905	97.5	97.5	97.2	99.4	97.5	97.5	98.2	98.0	98.2	97.5	97.2	97.2		
14	<i>S. suis</i> NCTC10234	83.9	83.9	84.1	84.1	84.1	84.1	84.3	84.3	84.1	84.2	83.7	83.7	84.1	

		Sequence similarity (%) of <i>sodA</i> with strains No.													
No.	Strains	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	<i>S. parasuis</i> BS26														

2	<i>S. parasuis</i> BS27	100.0												
3	<i>S. parasuis</i> SUT-7	96.9	96.9											
4	<i>S. parasuis</i> SUT-286	98.7	98.7	97.5										
5	<i>S. parasuis</i> SUT-319	98.5	98.5	97.4	98.8									
6	<i>S. parasuis</i> SUT-328	98.5	98.5	97.4	98.8	100.0								
7	<i>S. parasuis</i> SUT-380	98.2	98.2	97.4	98.8	99.0	99.0							
8	<i>S. parasuis</i> 86-5192	97.5	97.5	98.7	98.5	97.7	97.7	100.0						
9	<i>S. parasuis</i> 88-1861	96.9	96.9	99.7	97.5	97.4	97.4	98.7	98.7					
10	<i>S. parasuis</i> 89-4109-1	96.7	96.7	99.8	97.4	97.2	97.2	97.2	98.5	99.5				
11	<i>S. parasuis</i> 4253	99.3	99.3	96.9	98.7	98.5	98.5	98.5	97.5	96.9	96.7			
12	<i>S. parasuis</i> 2647	97.9	97.9	98.4	98.5	98.4	98.4	98.4	97.7	97.5	97.9	97.9		
13	<i>S. parasuis</i> 10-36905	96.9	96.9	100.0	97.5	97.4	97.4	97.4	98.7	99.7	99.8	96.9	97.7	
14	<i>S. suis</i> NCTC10234	83.0	83.0	84.7	84.0	84.0	84.0	84.0	84.3	84.3	84.5	83.0	84.0	84.7

No.	Strains	Sequence similarity (%) of <i>recN</i> with strains No.																									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	<i>S. parasuis</i> BS26																										
2	<i>S. parasuis</i> BS27	100.0																									
3	<i>S. parasuis</i> SUT-7	98.3	98.3																								
4	<i>S. parasuis</i> SUT-286	97.4	97.4	97.4																							
5	<i>S. parasuis</i> SUT-319	98.4	98.4	99.6	97.5																						
6	<i>S. parasuis</i> SUT-328	98.4	98.4	99.6	97.5	100.0																					
7	<i>S. parasuis</i> SUT-380	98.4	98.4	99.6	97.5	100.0	100.0																				
8	<i>S. parasuis</i> 86-5192	97.3	97.3	97.3	99.6	97.4	97.4	97.4																			
9	<i>S. parasuis</i> 88-1861	97.5	97.5	97.8	98.9	97.8	97.8	97.8	98.7																		
10	<i>S. parasuis</i> 89-4109-1	97.3	97.3	97.3	99.2	97.4	97.4	97.4	99.2	98.9																	
11	<i>S. parasuis</i> 4253	99.0	99.0	98.4	97.7	98.5	98.5	98.5	97.6	97.8	97.6																
12	<i>S. parasuis</i> 2674	97.6	97.6	98.3	97.4	98.3	98.3	98.3	97.3	97.4	97.1	97.8															
13	<i>S. parasuis</i> 10-36905	97.3	97.3	97.3	99.6	97.4	97.4	97.4	100.0	98.7	99.2	97.6	97.3														

		ANI values with strains No.													
No.	Strains	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	<i>S.parasuis</i> BS26														
2	<i>S.parasuis</i> BS27	99.98													
3	<i>S.parasuis</i> SUT-7	93.98	94.13												
4	<i>S.parasuis</i> SUT-286	95.1	95.2	94.96											
5	<i>S.parasuis</i> SUT-319	95.3	95.23	95.15	96.44										
6	<i>S.parasuis</i> SUT-328	95.31	95.33	95.14	96.58	99.99									
7	<i>S.parasuis</i> SUT-380	95.26	95.28	94.97	96.65	99.45	99.44								
8	<i>S.parasuis</i> 86-5192	95.14	95.04	94.3	97	96.06	96.05	96.22							
9	<i>S.parasuis</i> 88-1861	93.86	93.8	94.7	95.32	94.87	94.78	94.63	95.09						
10	<i>S.parasuis</i> 89-4109-1	95.28	95.19	94.52	97.2	96.02	96.04	95.88	97.25	95.17					
11	<i>S.parasuis</i> 4253	97.79	97.77	94.06	94.86	95.14	95.21	95.13	94.93	93.45	94.92				
12	<i>S.parasuis</i> 2674	94.02	94.02	95.13	95.63	95	95	94.99	95.93	95.35	95.4	93.92			

13	<i>S.parasuis</i> 10-36905	95	95	94.37	97.2	95.67	95.74	95.75	97.42	95.25	97.48	94.62	95.75	
14	<i>S.suis</i> NCTC10234	83.42	83.33	84.72	84.57	84.5	84.5	84.75	84.32	84.5	84.11	84.36	84.58	84.48